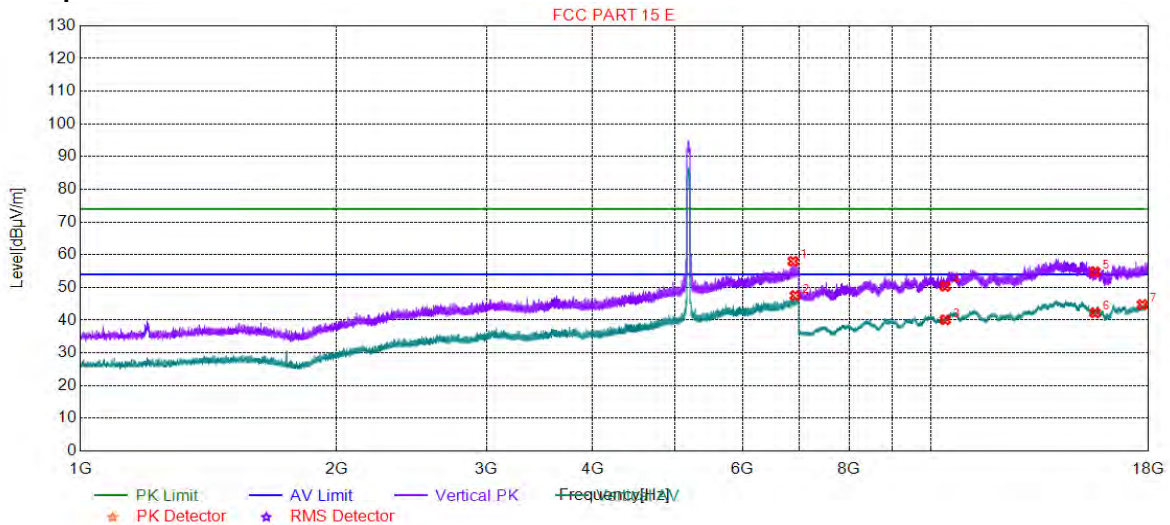


4.9.2.26 802.11N40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6879.69	58.01	20.84	74.00	15.99	150	360	Vertical
2	6920.19	47.52	20.99	54.00	6.48	150	18	Vertical
3	10380.0	40.12	-3.60	54.00	13.88	150	168	Vertical
4	10380.0	50.35	-3.60	74.00	23.65	150	69	Vertical
5	15570.0	54.80	0.29	74.00	19.20	150	268	Vertical
6	15570.0	42.25	0.29	54.00	11.75	150	69	Vertical
7	17701.3	44.76	-0.67	54.00	9.24	150	360	Vertical

Final Data List

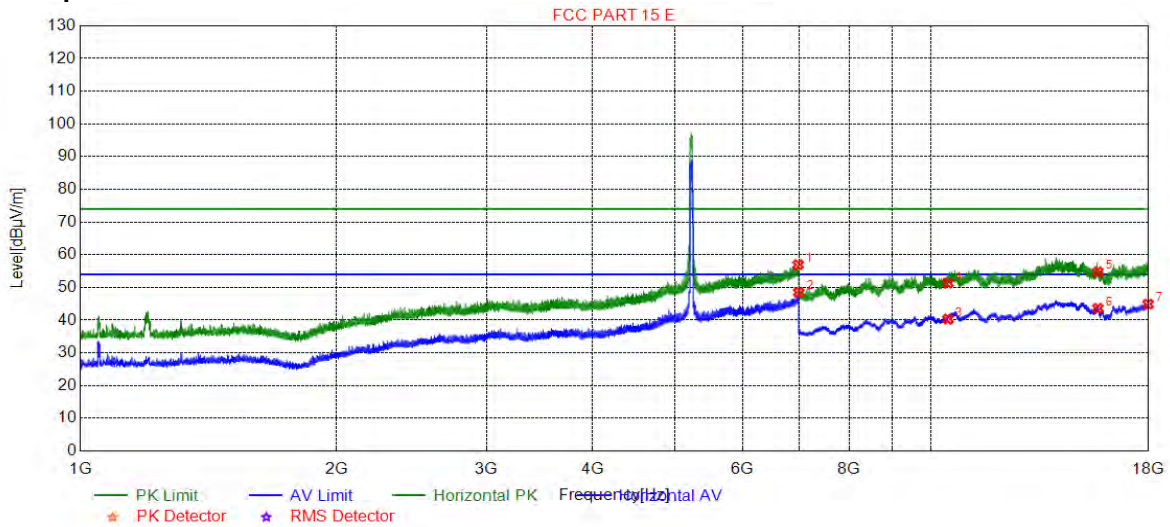


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4.9.2.27 802.11N40_Channel 46

Test Graph



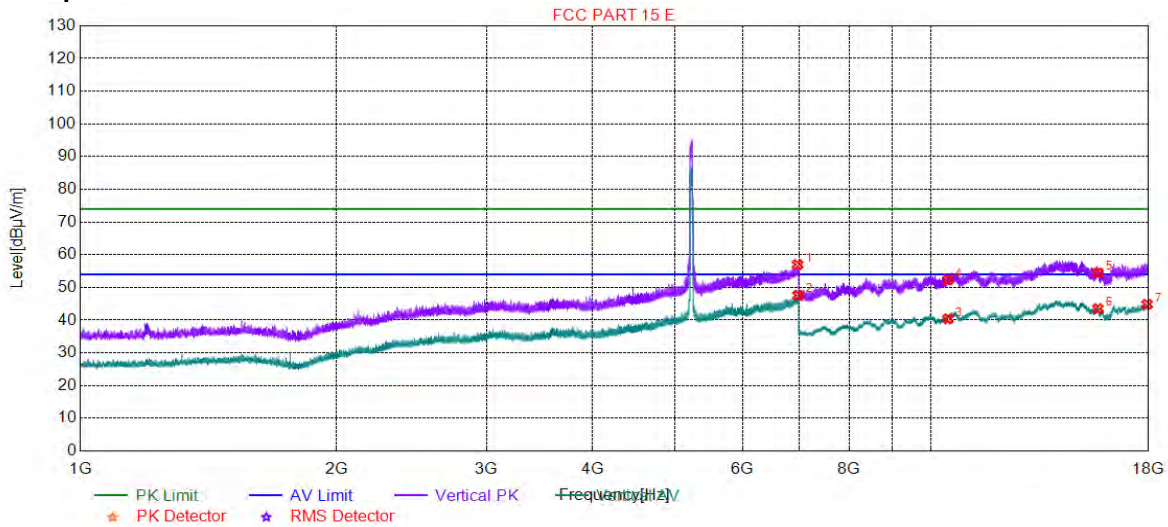
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6972.69	56.99	21.26	74.00	17.01	150	241	Horizontal
2	6984.39	48.51	21.27	54.00	5.49	150	241	Horizontal
3	10460.0	40.34	-3.09	54.00	13.66	150	93	Horizontal
4	10460.0	51.32	-3.09	74.00	22.68	150	143	Horizontal
5	15690.0	54.77	0.58	74.00	19.23	150	0	Horizontal
6	15690.0	43.60	0.58	54.00	10.40	150	0	Horizontal
7	17972.4	44.91	-1.29	54.00	9.09	150	143	Horizontal

Final Data List

4.9.2.28 802.11N40_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	6963.39	57.00	21.26	74.00	17.00	150	170	Vertical
2	6973.89	47.61	21.26	54.00	6.39	150	119	Vertical
3	10460.0	40.42	-3.09	54.00	13.58	150	18	Vertical
4	10460.0	52.30	-3.09	74.00	21.70	150	360	Vertical
5	15690.0	54.50	0.58	74.00	19.50	150	218	Vertical
6	15690.0	43.54	0.58	54.00	10.46	150	68	Vertical
7	17926.2	44.88	-1.30	54.00	9.12	150	168	Vertical

Final Data List

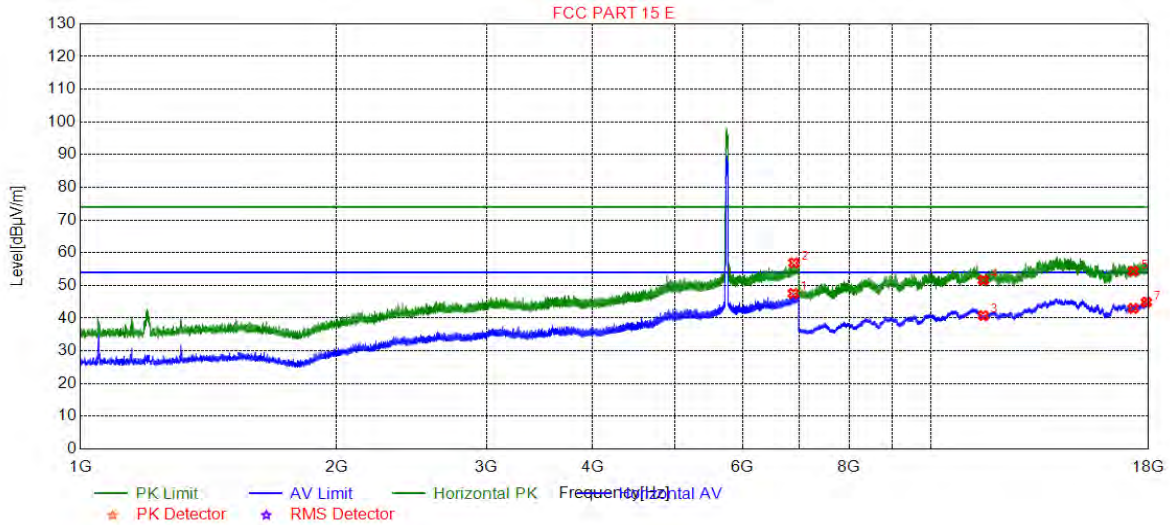


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4.9.2.29 802.11N40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6884.49	47.56	20.83	54.00	6.44	150	242	Horizontal
2	6895.89	56.94	20.82	74.00	17.06	150	141	Horizontal
3	11510.0	40.80	-2.07	54.00	13.20	150	241	Horizontal
4	11510.0	51.62	-2.07	74.00	22.38	150	40	Horizontal
5	17265.0	54.35	-2.46	74.00	19.65	150	241	Horizontal
6	17265.0	42.99	-2.46	54.00	11.01	150	90	Horizontal
7	17888.3	44.88	-1.46	54.00	9.12	150	90	Horizontal

Final Data List

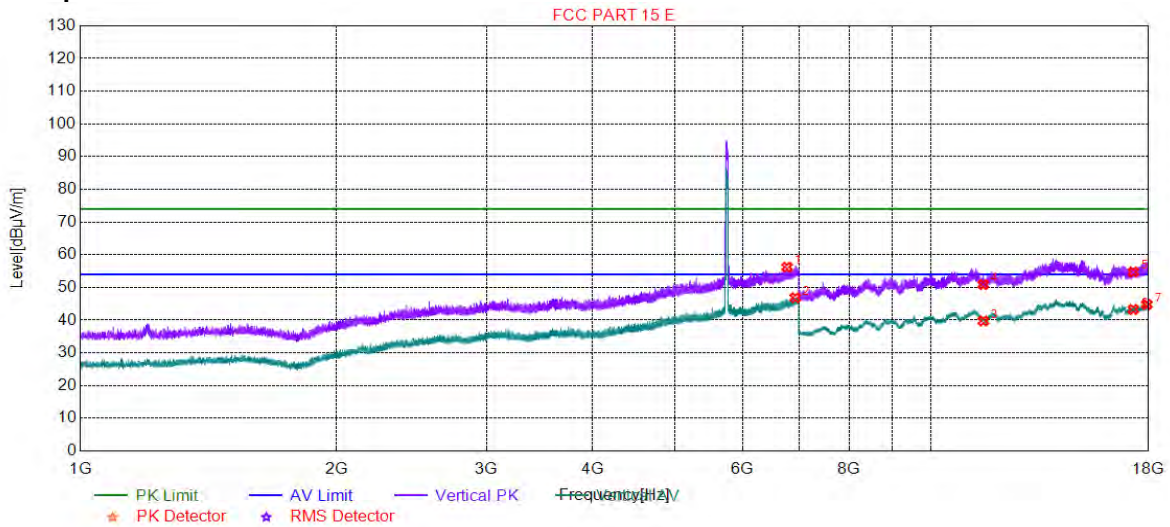


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4.9.2.30 802.11N40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6767.78	56.23	20.56	74.00	17.77	150	270	Vertical
2	6920.79	46.88	21.00	54.00	7.12	150	119	Vertical
3	11510.0	39.76	-2.07	54.00	14.24	150	18	Vertical
4	11510.0	50.89	-2.07	74.00	23.11	150	319	Vertical
5	17265.0	54.73	-2.46	74.00	19.27	150	119	Vertical
6	17265.0	43.30	-2.46	54.00	10.70	150	18	Vertical
7	17911.4	44.80	-1.31	54.00	9.20	150	18	Vertical

Final Data List

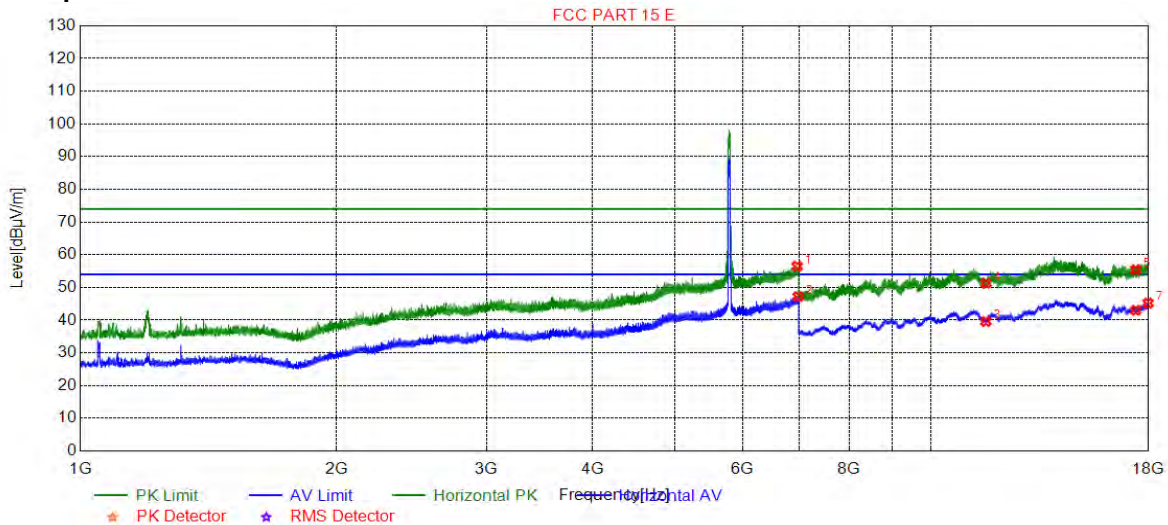


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4.9.2.31 802.11N40_Channel 159

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6955.89	56.48	21.26	74.00	17.52	150	41	Horizontal
2	6975.99	47.22	21.26	54.00	6.78	150	342	Horizontal
3	11590.0	39.59	-2.50	54.00	14.41	150	91	Horizontal
4	11590.0	51.31	-2.50	74.00	22.69	150	42	Horizontal
5	17385.0	55.43	-1.79	74.00	18.57	150	241	Horizontal
6	17385.0	43.03	-1.79	54.00	10.97	150	42	Horizontal
7	17969.7	45.22	-1.29	54.00	8.78	150	141	Horizontal

Final Data List

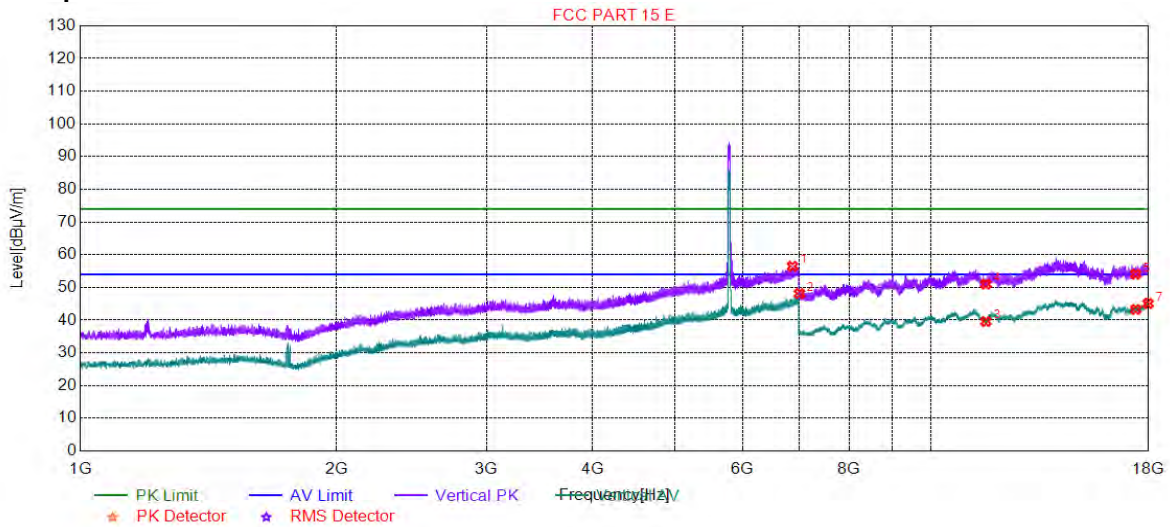


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4.9.2.32 802.11N40_Channel 159

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6867.99	56.49	20.86	74.00	17.51	150	18	Vertical
2	6998.49	48.14	21.27	54.00	5.86	150	360	Vertical
3	11590.0	39.58	-2.50	54.00	14.42	150	68	Vertical
4	11590.0	51.03	-2.50	74.00	22.97	150	218	Vertical
5	17385.0	54.07	-1.79	74.00	19.93	150	119	Vertical
6	17385.0	43.29	-1.79	54.00	10.71	150	119	Vertical
7	17972.4	45.09	-1.29	54.00	8.91	150	68	Vertical

Final Data List

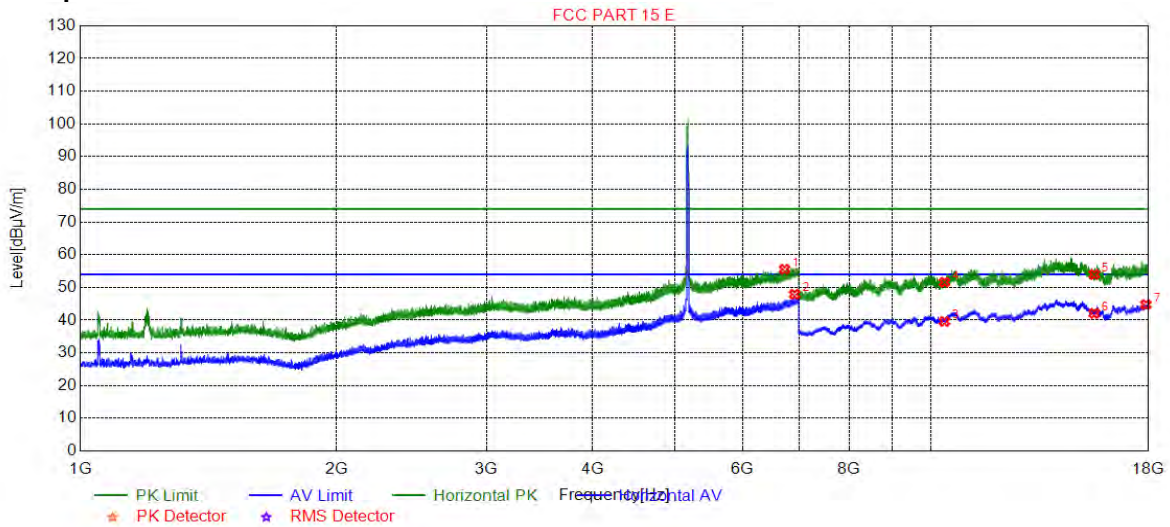


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4.9.2.33 802.11AC20_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6722.48	55.54	20.15	74.00	18.46	150	91	Horizontal
2	6906.99	47.90	20.87	54.00	6.10	150	342	Horizontal
3	10360.0	39.62	-3.63	54.00	14.38	150	0	Horizontal
4	10360.0	51.60	-3.63	74.00	22.40	150	0	Horizontal
5	15540.0	53.99	0.46	74.00	20.01	150	91	Horizontal
6	15540.0	42.09	0.46	54.00	11.91	150	91	Horizontal
7	17866.3	44.76	-1.75	54.00	9.24	150	241	Horizontal

Final Data List

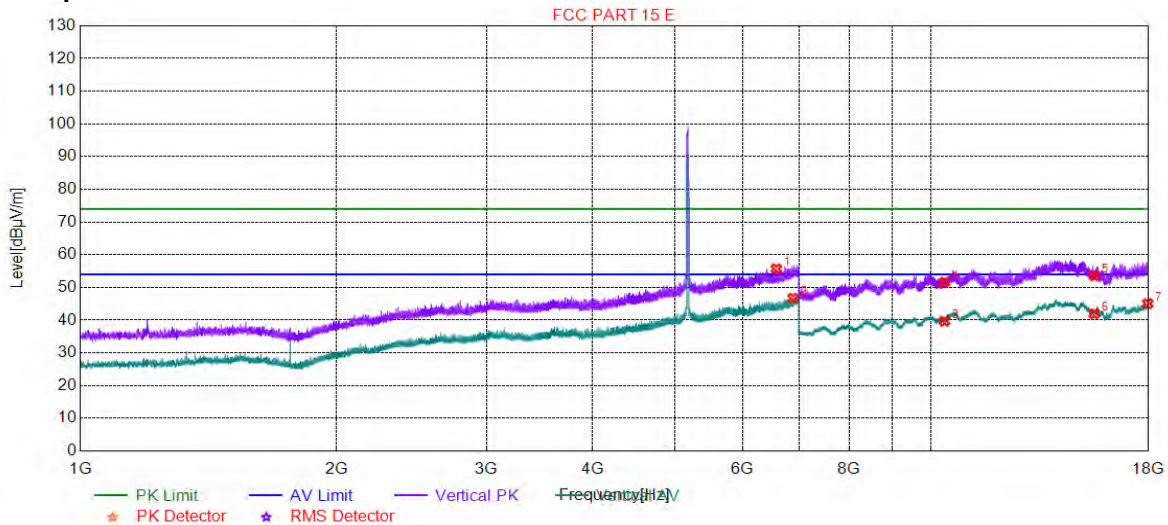


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4.9.2.34 802.11AC20_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6572.77	55.72	19.54	74.00	18.28	150	270	Vertical
2	6875.19	46.75	20.85	54.00	7.25	150	360	Vertical
3	10360.0	39.72	-3.63	54.00	14.28	150	18	Vertical
4	10360.0	51.66	-3.63	74.00	22.34	150	167	Vertical
5	15540.0	53.58	0.46	74.00	20.42	150	18	Vertical
6	15540.0	41.95	0.46	54.00	12.05	150	167	Vertical
7	17953.7	45.08	-1.29	54.00	8.92	150	67	Vertical

Final Data List

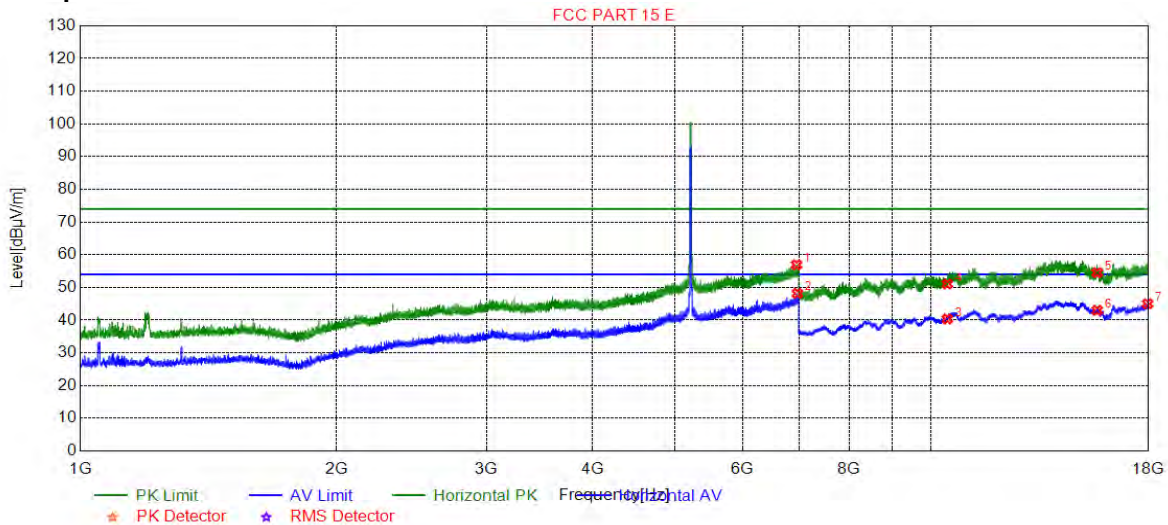


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4.9.2.35 802.11AC20_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6942.69	56.98	21.19	74.00	17.02	150	292	Horizontal
2	6960.39	48.19	21.26	54.00	5.81	150	342	Horizontal
3	10440.0	40.39	-3.24	54.00	13.61	150	342	Horizontal
4	10440.0	51.08	-3.24	74.00	22.92	150	240	Horizontal
5	15660.0	54.55	0.43	74.00	19.45	150	189	Horizontal
6	15660.0	43.00	0.43	54.00	11.00	150	89	Horizontal
7	17948.2	45.05	-1.30	54.00	8.95	150	139	Horizontal

Final Data List



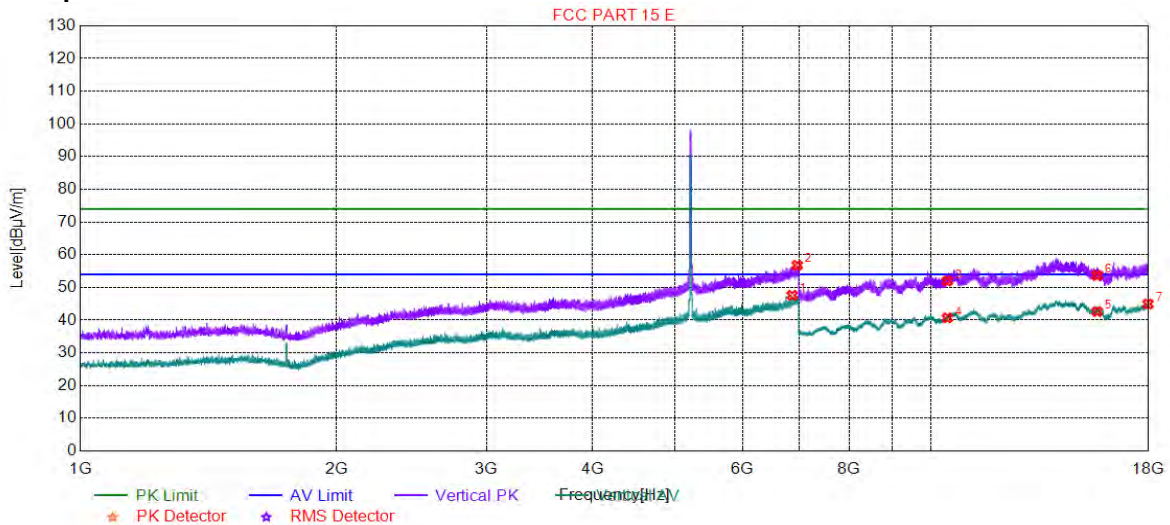
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4.9.2.36 802.11AC20_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6862.89	47.59	20.87	54.00	6.41	150	220	Vertical
2	6956.19	56.78	21.26	74.00	17.22	150	360	Vertical
3	10440.0	51.99	-3.24	74.00	22.01	150	69	Vertical
4	10440.0	40.71	-3.24	54.00	13.29	150	18	Vertical
5	15660.0	42.65	0.43	54.00	11.35	150	18	Vertical
6	15660.0	53.65	0.43	74.00	20.35	150	18	Vertical
7	17970.8	44.97	-1.29	54.00	9.03	150	18	Vertical

Final Data List



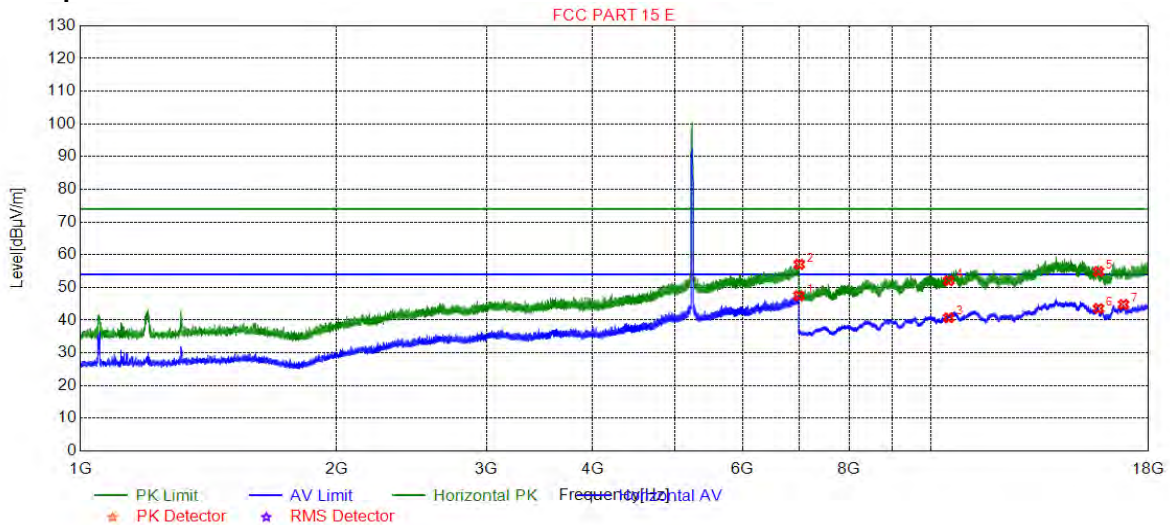
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4.9.2.37 802.11AC20_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6986.79	47.48	21.27	54.00	6.52	150	342	Horizontal
2	6994.59	57.07	21.27	74.00	16.93	150	342	Horizontal
3	10480.0	40.75	-2.94	54.00	13.25	150	191	Horizontal
4	10480.0	52.05	-2.94	74.00	21.95	150	191	Horizontal
5	15720.0	54.87	0.29	74.00	19.13	150	241	Horizontal
6	15720.0	43.55	0.29	54.00	10.45	150	292	Horizontal
7	16820.7	44.80	-0.58	54.00	9.20	150	41	Horizontal

Final Data List



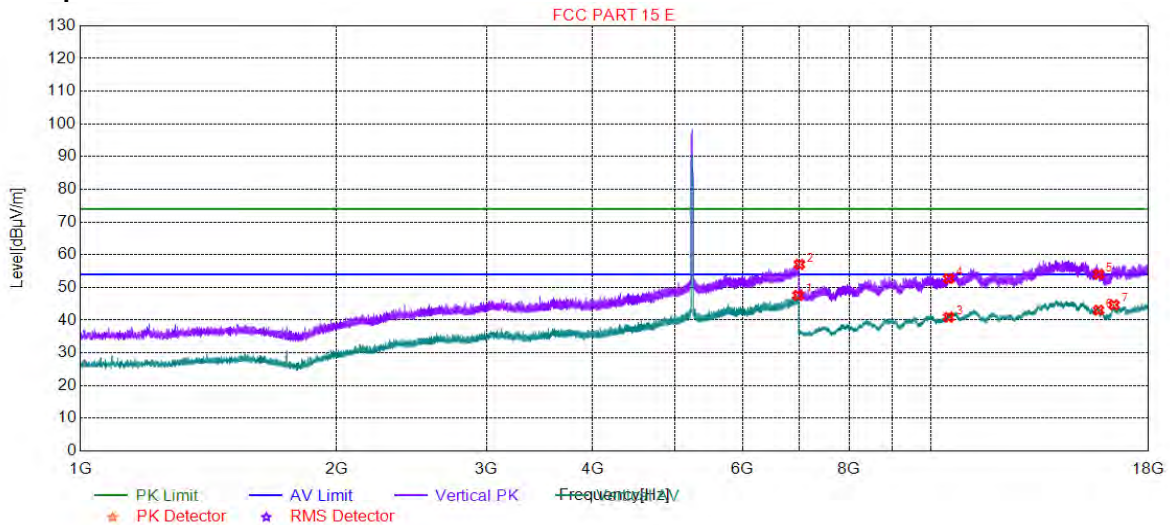
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4.9.2.38 802.11AC20_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6972.69	47.57	21.26	54.00	6.43	150	119	Vertical
2	6996.69	57.06	21.27	74.00	16.94	150	18	Vertical
3	10480.0	40.92	-2.94	54.00	13.08	150	360	Vertical
4	10480.0	52.70	-2.94	74.00	21.30	150	270	Vertical
5	15720.0	54.04	0.29	74.00	19.96	150	319	Vertical
6	15720.0	43.07	0.29	54.00	10.93	150	69	Vertical
7	16387.8	44.67	-1.13	54.00	9.33	150	270	Vertical

Final Data List

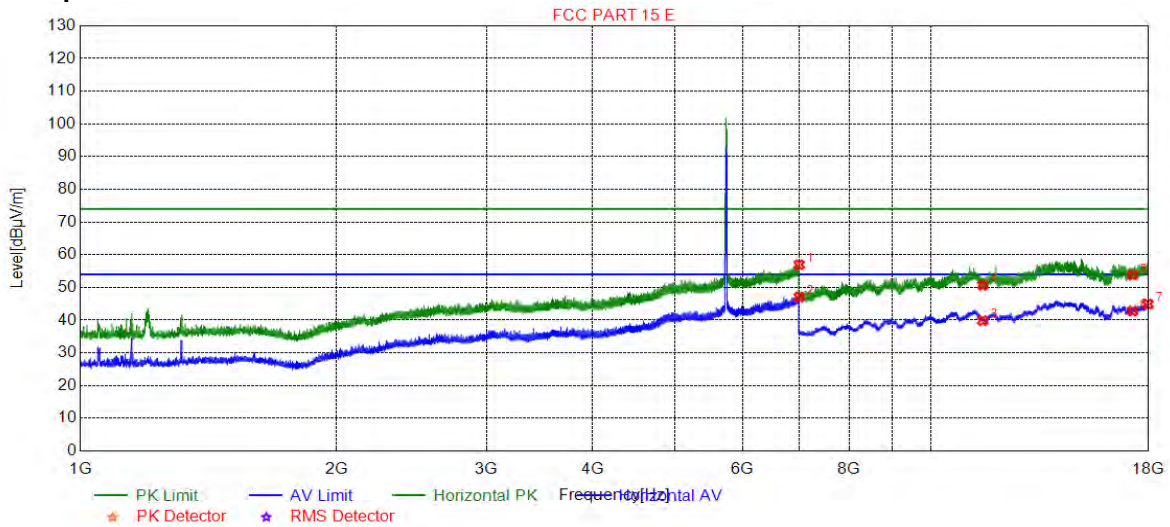


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4.9.2.39 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6990.69	56.96	21.27	74.00	17.04	150	191	Horizontal
2	6994.59	47.08	21.27	54.00	6.92	150	40	Horizontal
3	11490.0	39.87	-2.03	54.00	14.13	150	34	Horizontal
4	11490.0	50.68	-2.03	74.00	23.32	150	239	Horizontal
5	17235.0	53.78	-2.67	74.00	20.22	150	34	Horizontal
6	17235.0	42.81	-2.67	54.00	11.19	150	34	Horizontal
7	17965.3	44.91	-1.29	54.00	9.09	150	184	Horizontal

Final Data List

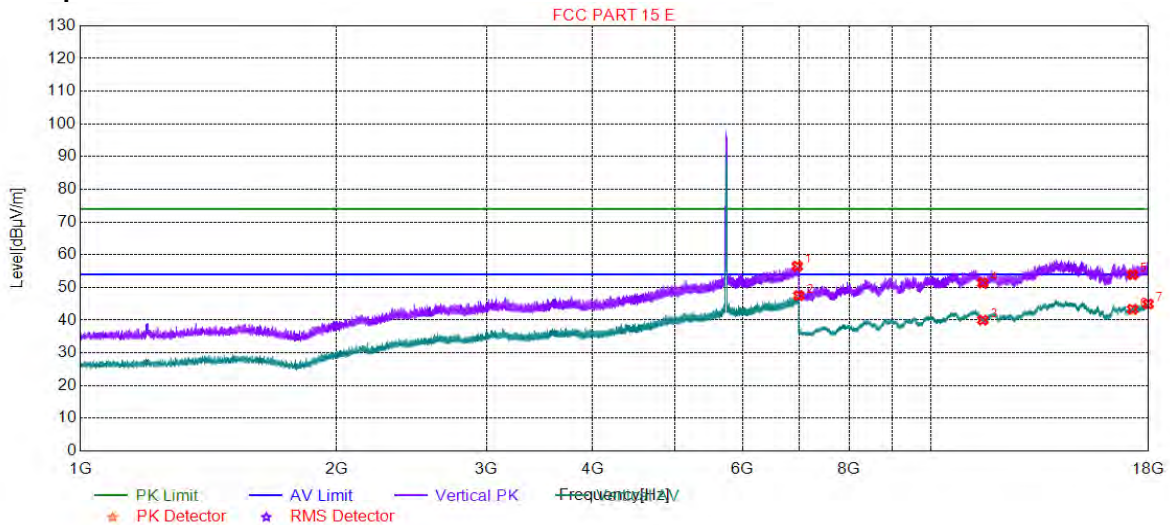


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4.9.2.40 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6958.59	56.50	21.26	74.00	17.50	150	170	Vertical
2	6985.29	47.53	21.27	54.00	6.47	150	119	Vertical
3	11490.0	40.03	-2.03	54.00	13.97	150	218	Vertical
4	11490.0	51.37	-2.03	74.00	22.63	150	218	Vertical
5	17235.0	53.91	-2.67	74.00	20.09	150	360	Vertical
6	17235.0	43.33	-2.67	54.00	10.67	150	168	Vertical
7	17975.7	44.95	-1.29	54.00	9.05	150	18	Vertical

Final Data List

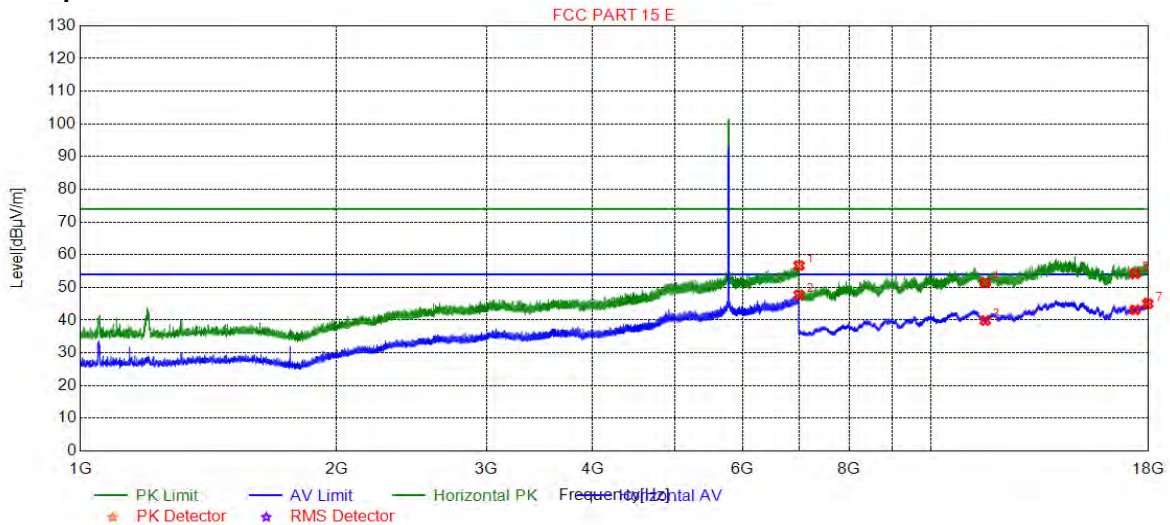


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4.9.2.41 802.11AC20_Channel 157

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6990.09	56.70	21.27	74.00	17.30	150	292	Horizontal
2	6990.39	47.72	21.27	54.00	6.28	150	192	Horizontal
3	11570.0	39.89	-2.39	54.00	14.11	150	42	Horizontal
4	11570.0	51.46	-2.39	74.00	22.54	150	242	Horizontal
5	17355.0	54.19	-1.94	74.00	19.81	150	92	Horizontal
6	17355.0	43.17	-1.94	54.00	10.83	150	292	Horizontal
7	17955.9	45.04	-1.29	54.00	8.96	150	42	Horizontal

Final Data List



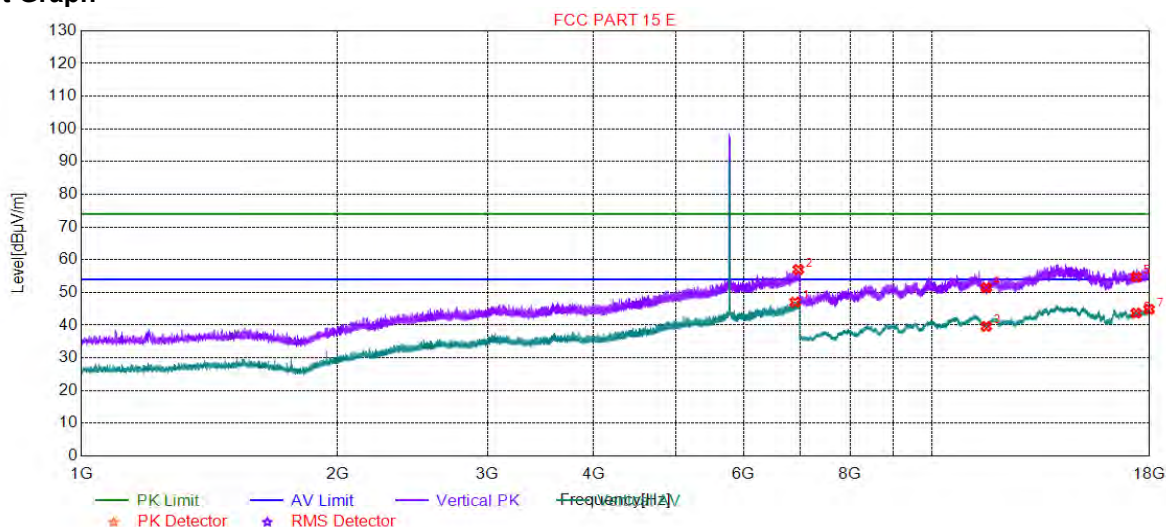
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4.9.2.42 802.11AC20_Channel 157

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6898.29	47.04	20.81	54.00	6.96	150	220	Vertical
2	6960.39	57.02	21.26	74.00	16.98	150	220	Vertical
3	11570.0	39.61	-2.39	54.00	14.39	150	68	Vertical
4	11570.0	51.46	-2.39	74.00	22.54	150	118	Vertical
5	17355.0	54.73	-1.94	74.00	19.27	150	168	Vertical
6	17355.0	43.69	-1.94	54.00	10.31	150	118	Vertical
7	17977.4	44.86	-1.29	54.00	9.14	150	268	Vertical

Final Data List

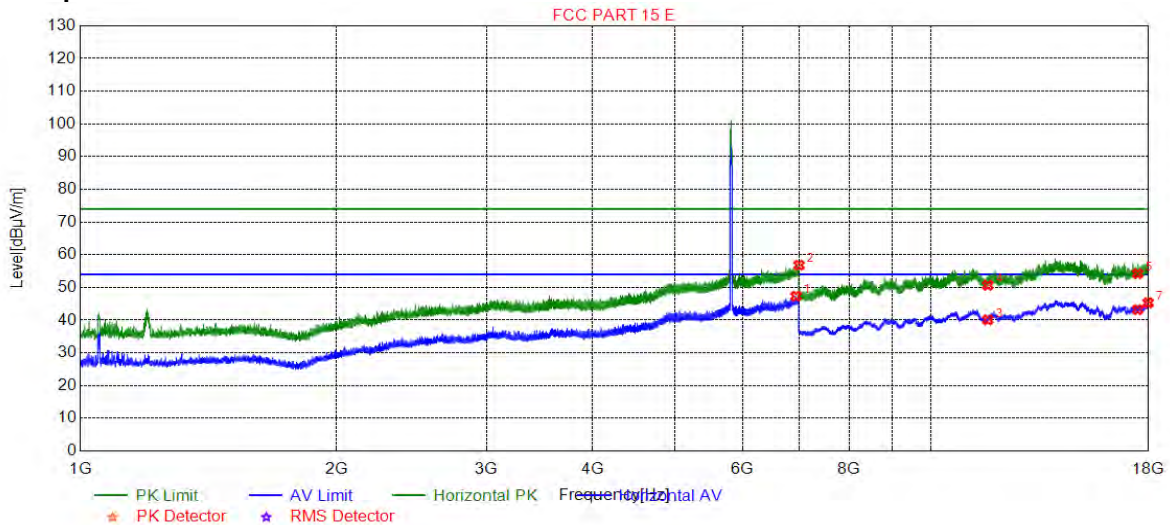


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4.9.2.43 802.11AC20_Channel 165

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6934.29	47.37	21.12	54.00	6.63	150	241	Horizontal
2	6988.89	56.81	21.27	74.00	17.19	150	90	Horizontal
3	11650.0	40.10	-2.49	54.00	13.90	150	141	Horizontal
4	11650.0	50.66	-2.49	74.00	23.34	150	292	Horizontal
5	17475.0	54.23	-1.24	74.00	19.77	150	141	Horizontal
6	17475.0	43.23	-1.24	54.00	10.77	150	0	Horizontal
7	17974.1	45.30	-1.29	54.00	8.70	150	342	Horizontal

Final Data List



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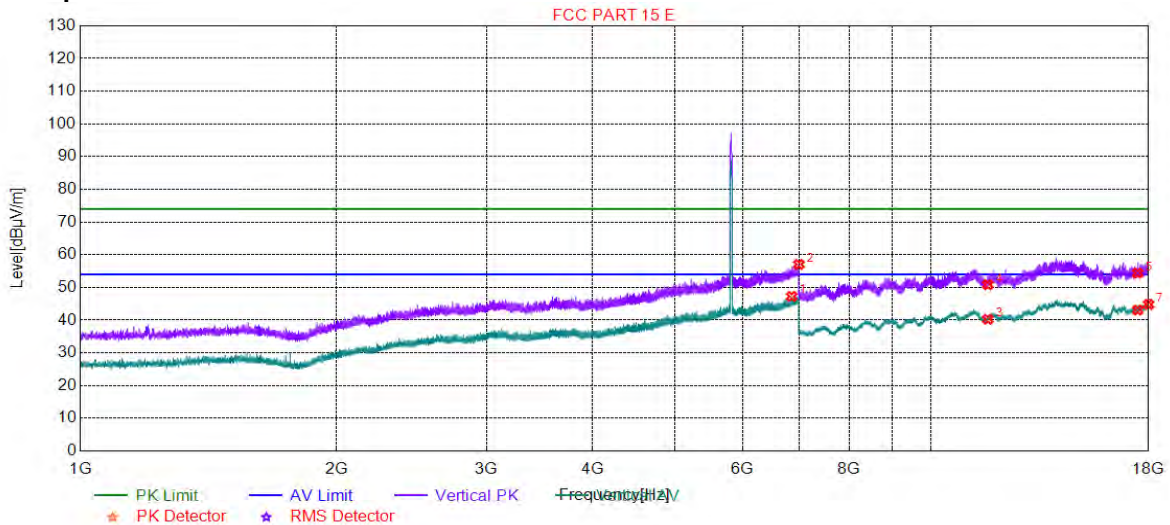
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4.9.2.44 802.11AC20_Channel 165

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6854.19	47.29	20.88	54.00	6.71	150	270	Vertical
2	6987.39	57.06	21.27	74.00	16.94	150	169	Vertical
3	11650.0	40.28	-2.49	54.00	13.72	150	269	Vertical
4	11650.0	50.82	-2.49	74.00	23.18	150	68	Vertical
5	17475.0	54.38	-1.24	74.00	19.62	150	68	Vertical
6	17475.0	43.09	-1.24	54.00	10.91	150	169	Vertical
7	17996.6	44.80	-1.28	54.00	9.20	150	319	Vertical

Final Data List



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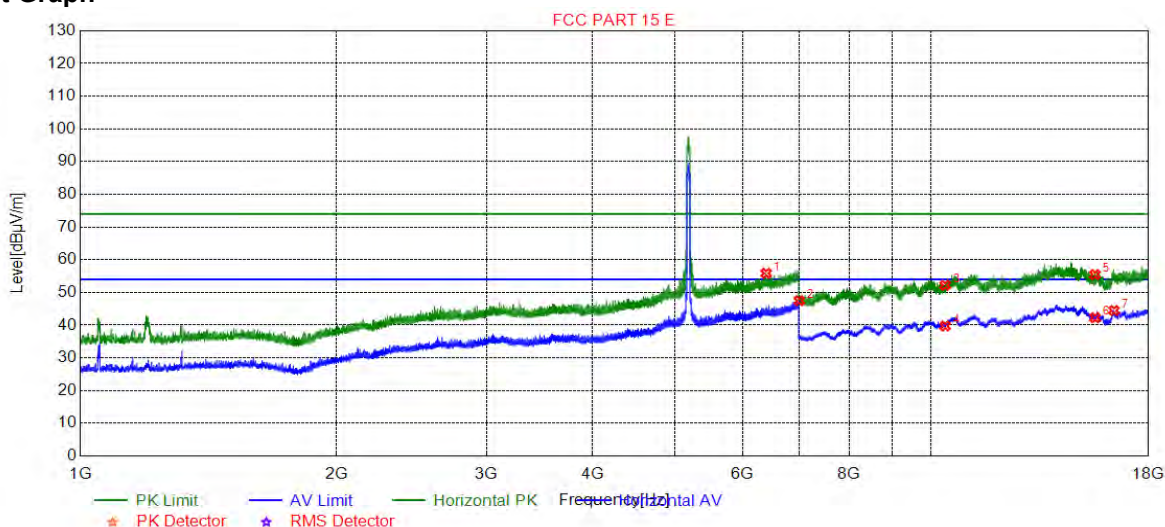
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4.9.2.45 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6395.76	55.87	19.37	74.00	18.13	150	42	Horizontal
2	6995.49	47.48	21.27	54.00	6.52	150	0	Horizontal
3	10380.0	52.22	-3.60	74.00	21.78	150	140	Horizontal
4	10380.0	39.75	-3.60	54.00	14.25	150	0	Horizontal
5	15570.0	55.47	0.29	74.00	18.53	150	241	Horizontal
6	15570.0	42.28	0.29	54.00	11.72	150	140	Horizontal
7	16391.1	44.49	-1.13	54.00	9.51	150	191	Horizontal

Final Data List

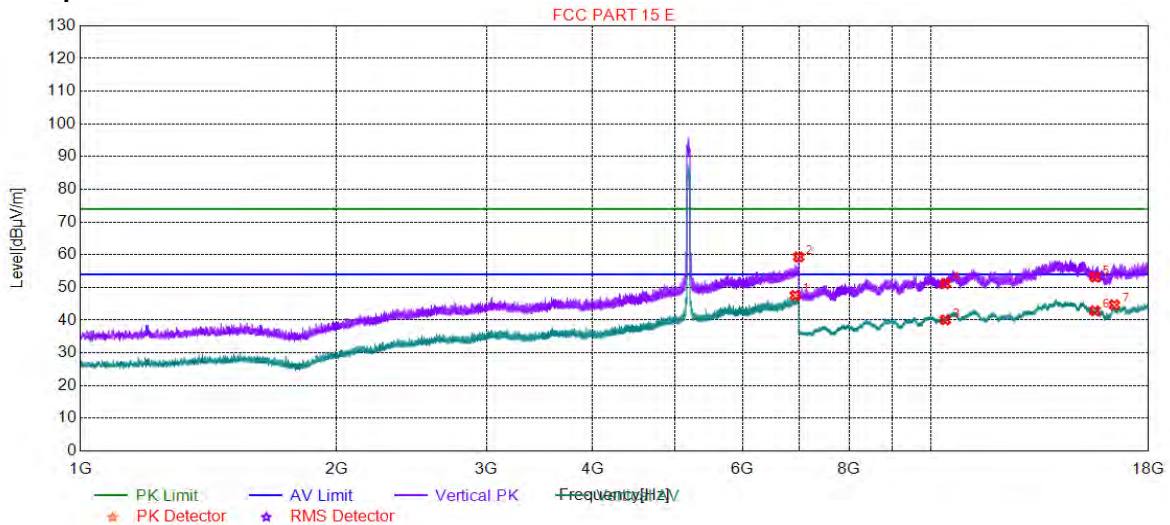


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4.9.2.46 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6920.19	47.58	20.99	54.00	6.42	150	18	Vertical
2	6982.59	59.33	21.26	74.00	14.67	150	169	Vertical
3	10380.0	40.10	-3.60	54.00	13.90	150	18	Vertical
4	10380.0	51.17	-3.60	74.00	22.83	150	360	Vertical
5	15570.0	53.19	0.29	74.00	20.81	150	117	Vertical
6	15570.0	42.86	0.29	54.00	11.14	150	67	Vertical
7	16405.4	44.68	-1.12	54.00	9.32	150	316	Vertical

Final Data List



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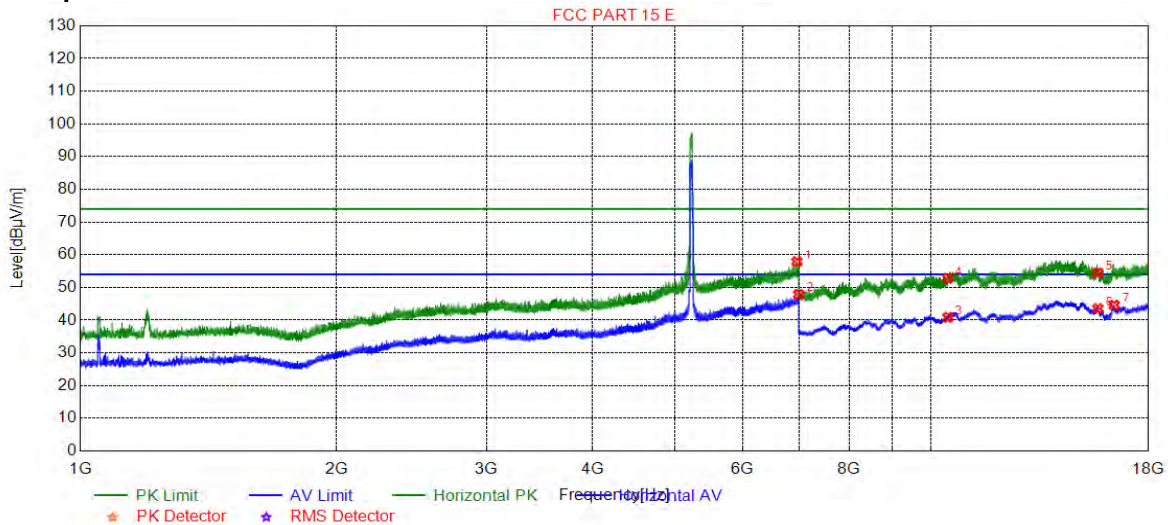
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4.9.2.47 802.11AC40_Channel 46

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6950.79	57.90	21.26	74.00	16.10	150	92	Horizontal
2	6984.69	47.89	21.27	54.00	6.11	150	41	Horizontal
3	10460.0	40.88	-3.09	54.00	13.12	150	39	Horizontal
4	10460.0	52.82	-3.09	74.00	21.18	150	291	Horizontal
5	15690.0	54.48	0.58	74.00	19.52	150	342	Horizontal
6	15690.0	43.53	0.58	54.00	10.47	150	89	Horizontal
7	16403.8	44.59	-1.12	54.00	9.41	150	240	Horizontal

Final Data List

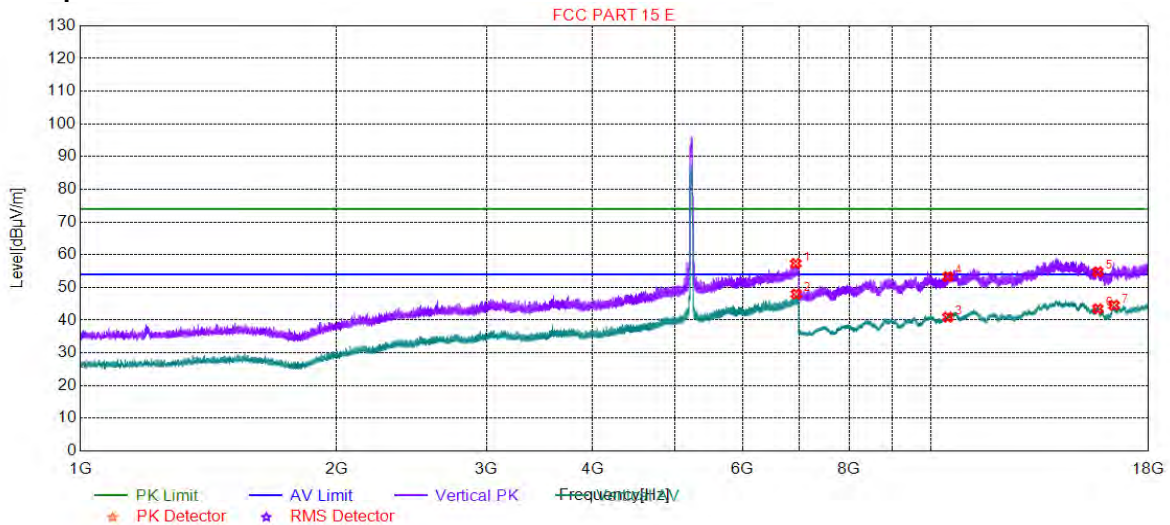


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4.9.2.48 802.11AC40_Channel 46

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6929.19	57.34	21.07	74.00	16.66	150	320	Vertical
2	6938.49	47.98	21.15	54.00	6.02	150	169	Vertical
3	10460.0	40.92	-3.09	54.00	13.08	150	18	Vertical
4	10460.0	53.33	-3.09	74.00	20.67	150	270	Vertical
5	15690.0	54.77	0.58	74.00	19.23	150	219	Vertical
6	15690.0	43.48	0.58	54.00	10.52	150	169	Vertical
7	16391.1	44.57	-1.13	54.00	9.43	150	320	Vertical

Final Data List

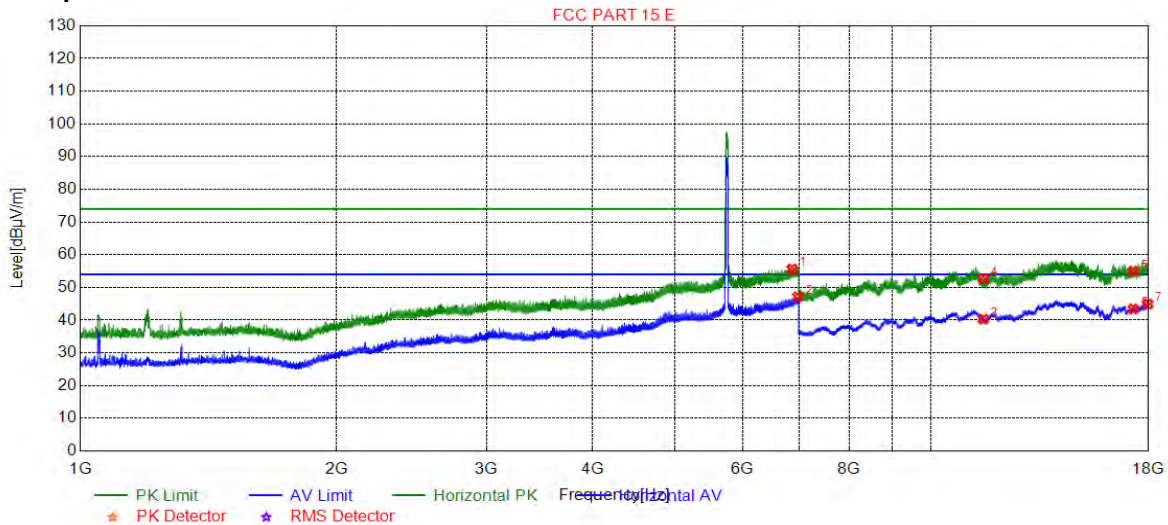


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4.9.2.49 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6860.79	55.61	20.87	74.00	18.39	150	292	Horizontal
2	6967.89	47.14	21.26	54.00	6.86	150	292	Horizontal
3	11510.0	40.33	-2.07	54.00	13.67	150	93	Horizontal
4	11510.0	52.70	-2.07	74.00	21.30	150	242	Horizontal
5	17265.0	54.99	-2.46	74.00	19.01	150	143	Horizontal
6	17265.0	43.42	-2.46	54.00	10.58	150	242	Horizontal
7	17952.1	44.96	-1.29	54.00	9.04	150	242	Horizontal

Final Data List



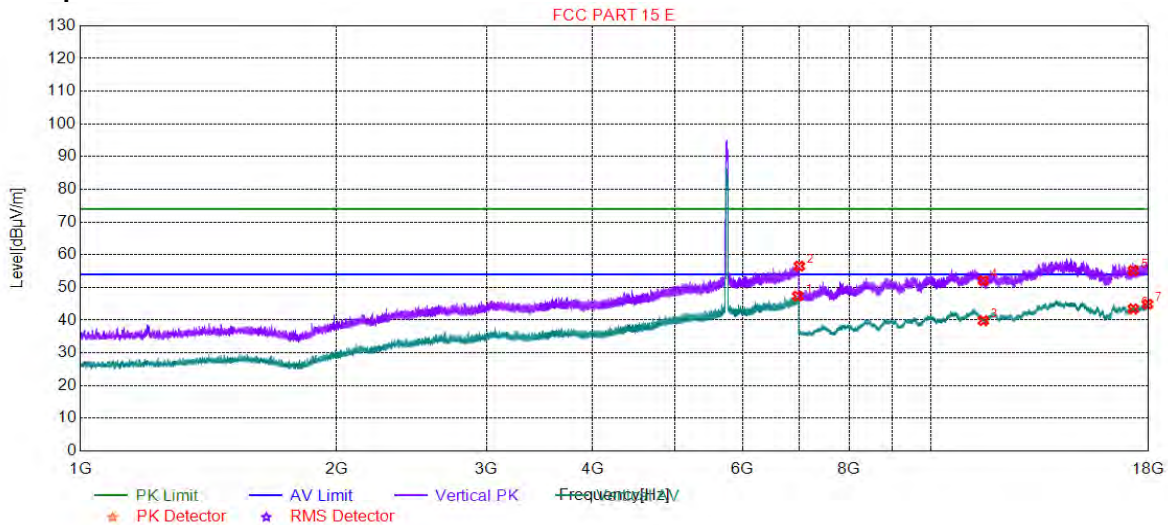
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4.9.2.50 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6966.99	47.36	21.26	54.00	6.64	150	269	Vertical
2	6996.09	56.52	21.27	74.00	17.48	150	68	Vertical
3	11510.0	39.87	-2.07	54.00	14.13	150	318	Vertical
4	11510.0	52.09	-2.07	74.00	21.91	150	68	Vertical
5	17265.0	55.19	-2.46	74.00	18.81	150	168	Vertical
6	17265.0	43.45	-2.46	54.00	10.55	150	118	Vertical
7	17952.1	44.89	-1.29	54.00	9.11	150	18	Vertical

Final Data List

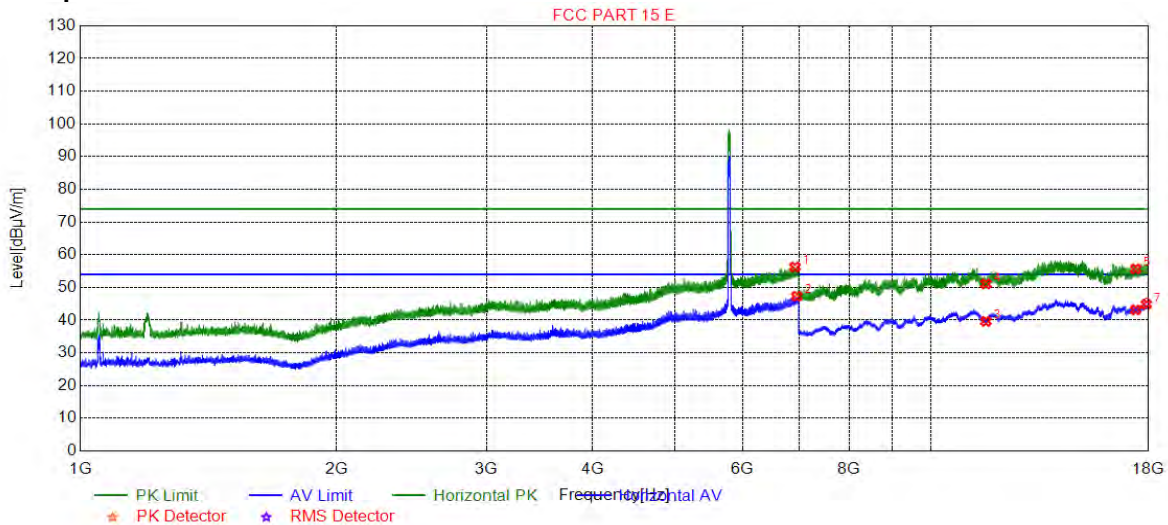


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4.9.2.51 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6913.59	56.28	20.93	74.00	17.72	150	142	Horizontal
2	6946.89	47.28	21.23	54.00	6.72	150	142	Horizontal
3	11590.0	39.65	-2.50	54.00	14.35	150	42	Horizontal
4	11590.0	51.10	-2.50	74.00	22.90	150	142	Horizontal
5	17385.0	55.70	-1.79	74.00	18.30	150	142	Horizontal
6	17385.0	43.16	-1.79	54.00	10.84	150	241	Horizontal
7	17882.2	44.86	-1.54	54.00	9.14	150	42	Horizontal

Final Data List

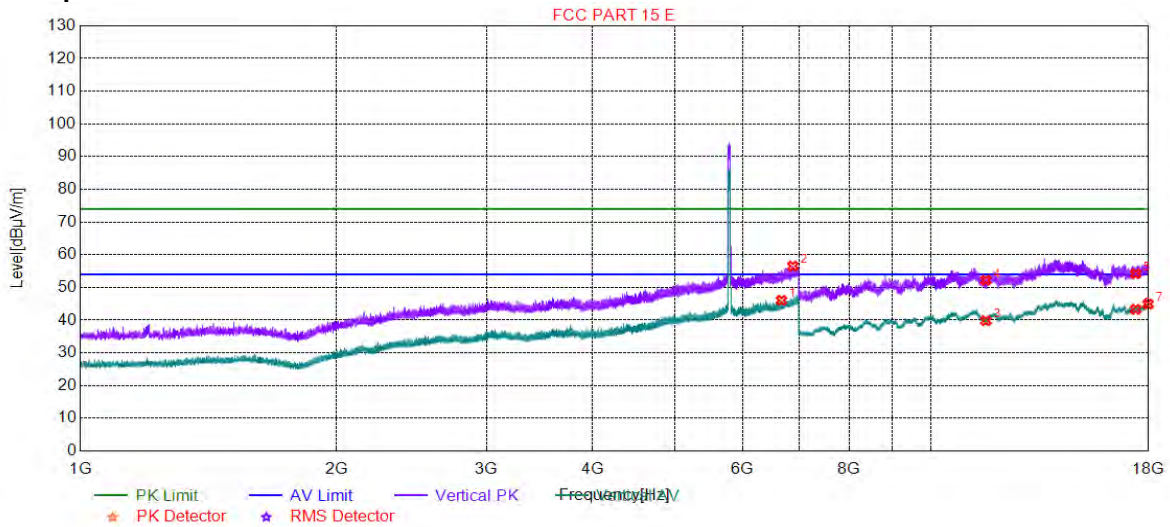


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4.9.2.52 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6666.08	46.08	19.79	54.00	7.92	150	170	Vertical
2	6874.89	56.55	20.85	74.00	17.45	150	360	Vertical
3	11590.0	39.85	-2.50	54.00	14.15	150	319	Vertical
4	11590.0	52.25	-2.50	74.00	21.75	150	319	Vertical
5	17385.0	54.21	-1.79	74.00	19.79	150	168	Vertical
6	17385.0	43.32	-1.79	54.00	10.68	150	319	Vertical
7	17972.4	44.93	-1.29	54.00	9.07	150	68	Vertical

Final Data List

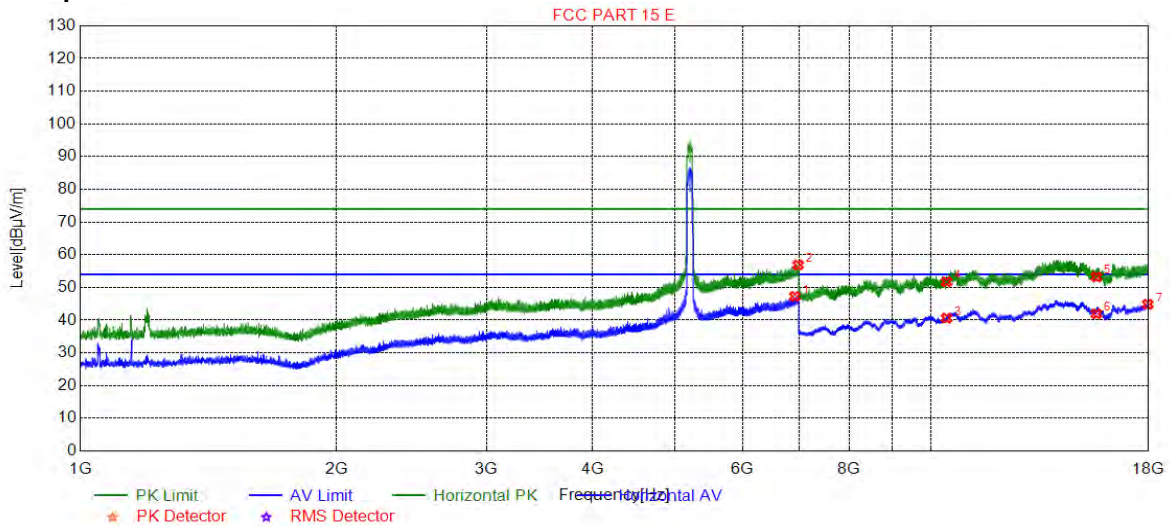


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4.9.2.53 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.89	47.26	20.91	54.00	6.74	150	42	Horizontal
2	6974.19	56.89	21.26	74.00	17.11	150	142	Horizontal
3	10420.0	40.63	-3.40	54.00	13.37	150	191	Horizontal
4	10420.0	51.73	-3.40	74.00	22.27	150	90	Horizontal
5	15630.0	53.22	0.28	74.00	20.78	150	90	Horizontal
6	15630.0	41.94	0.28	54.00	12.06	150	0	Horizontal
7	17956.5	44.86	-1.29	54.00	9.14	150	90	Horizontal

Final Data List



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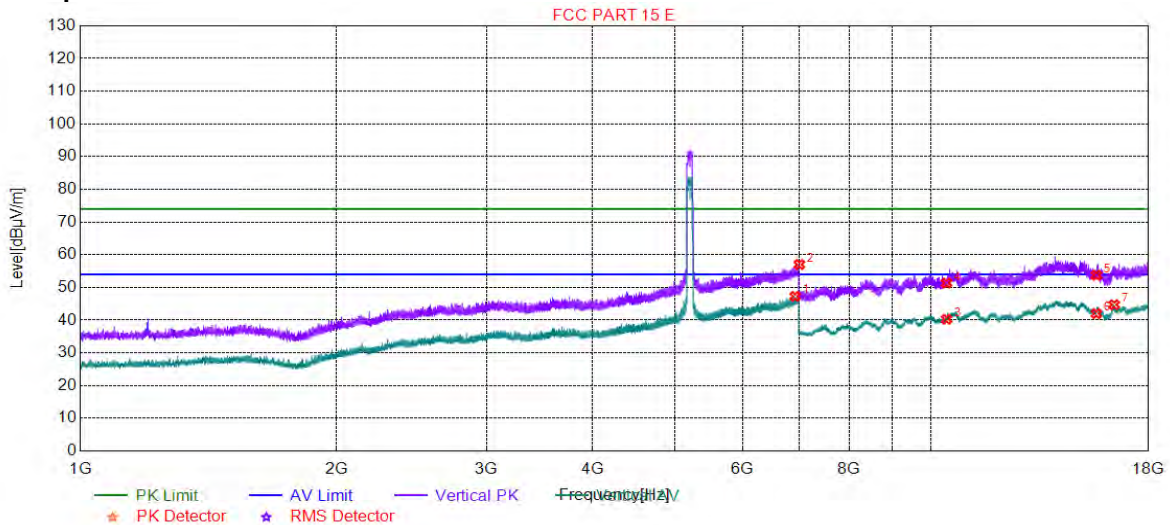
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4.9.2.54 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6916.89	47.29	20.96	54.00	6.71	150	18	Vertical
2	6996.69	57.02	21.27	74.00	16.98	150	220	Vertical
3	10420.0	40.30	-3.40	54.00	13.70	150	360	Vertical
4	10420.0	51.36	-3.40	74.00	22.64	150	18	Vertical
5	15630.0	53.73	0.28	74.00	20.27	150	218	Vertical
6	15630.0	42.01	0.28	54.00	11.99	150	118	Vertical
7	16398.3	44.74	-1.12	54.00	9.26	150	168	Vertical

Final Data List

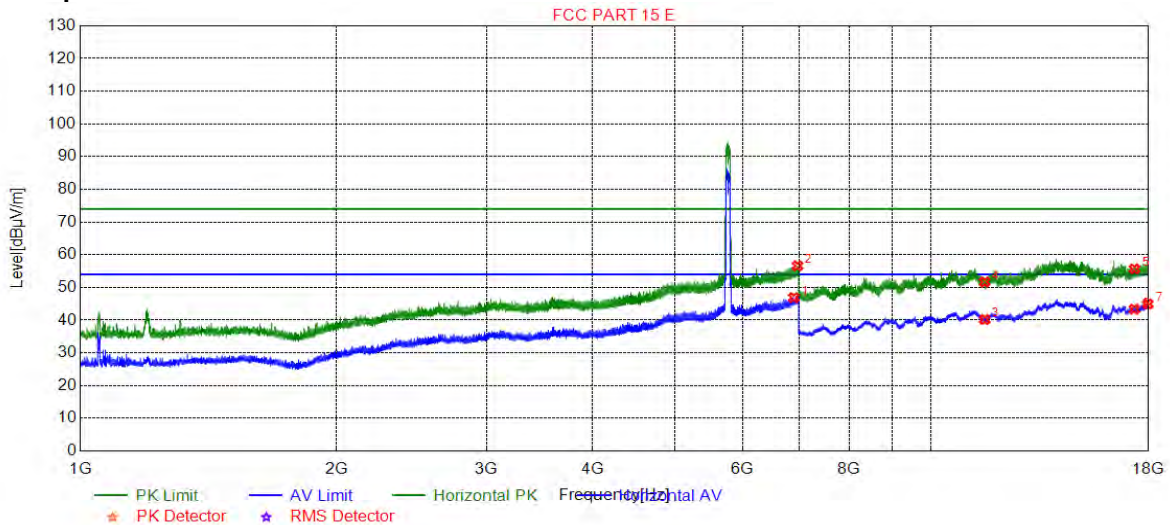


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4.9.2.55 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6892.29	46.89	20.82	54.00	7.11	150	90	Horizontal
2	6962.19	56.62	21.26	74.00	17.38	150	242	Horizontal
3	11550.0	40.21	-2.29	54.00	13.79	150	0	Horizontal
4	11550.0	51.68	-2.29	74.00	22.32	150	141	Horizontal
5	17325.0	55.69	-2.09	74.00	18.31	150	292	Horizontal
6	17325.0	43.39	-2.09	54.00	10.61	150	342	Horizontal
7	17959.8	44.93	-1.29	54.00	9.07	150	141	Horizontal

Final Data List



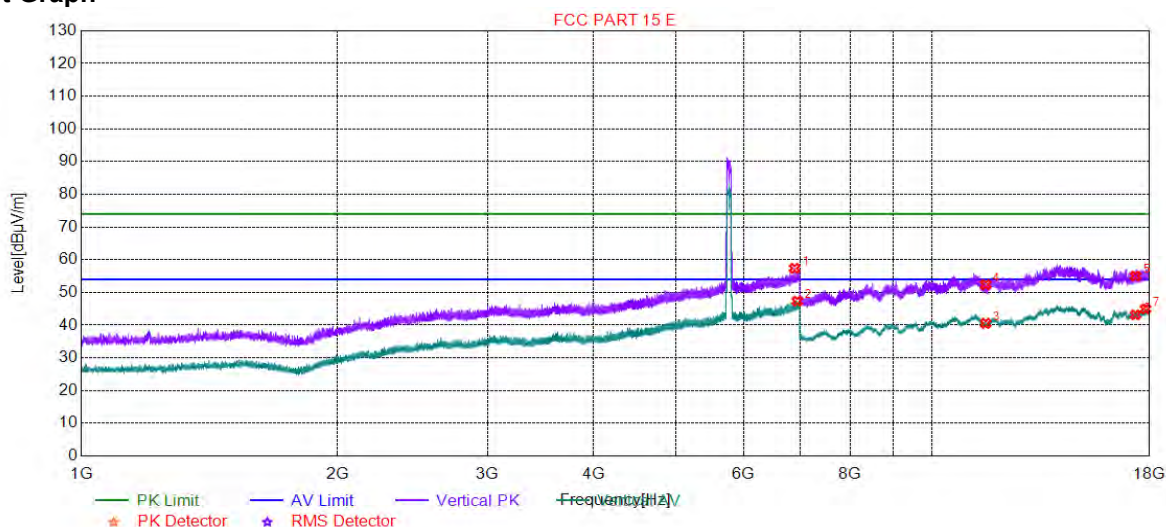
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4.9.2.56 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6888.09	57.39	20.83	74.00	16.61	150	118	Vertical
2	6937.59	47.37	21.14	54.00	6.63	150	360	Vertical
3	11550.0	40.57	-2.29	54.00	13.43	150	168	Vertical
4	11550.0	52.42	-2.29	74.00	21.58	150	68	Vertical
5	17325.0	55.04	-2.09	74.00	18.96	150	118	Vertical
6	17325.0	43.17	-2.09	54.00	10.83	150	168	Vertical
7	17798.6	44.99	-2.60	54.00	9.01	150	269	Vertical

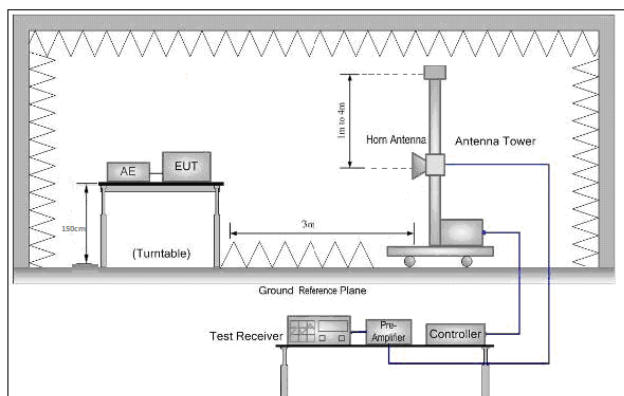
Final Data List

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All modes have been tested, but only the worst case data displayed in this report.

4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			



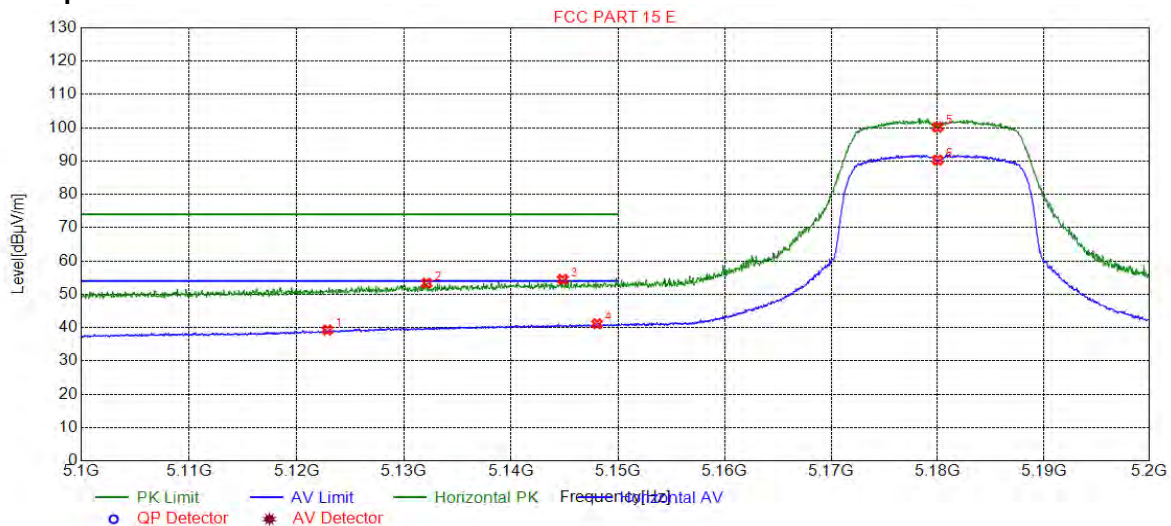
Test Procedure:	a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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 g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80); MCS0 of rate is the worst case of 802.11ac(HT160) Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



4.10.1 Test plots

4.10.1.1 802.11A_Channel 36

Test Graph



Suspected List

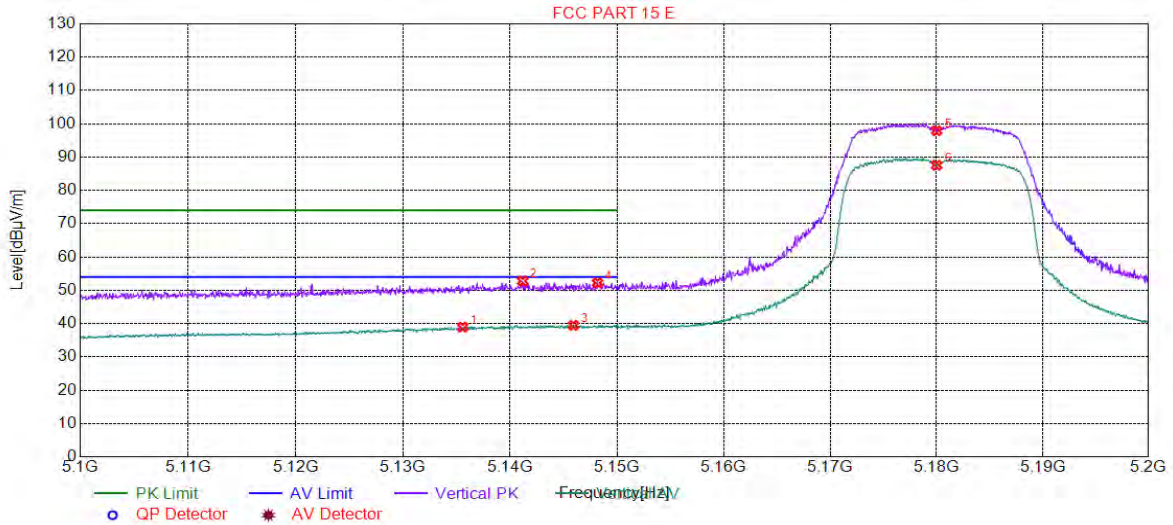
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.86	39.31	15.29	54.00	14.69	150	330	Horizontal
2	5132.11	53.34	15.37	74.00	20.66	150	319	Horizontal
3	5144.82	54.47	15.48	74.00	19.53	150	330	Horizontal
4	5148.02	41.18	15.50	54.00	12.82	150	330	Horizontal
5	5180.00	100.18	15.56	0.00	-100.18	150	150	Horizontal
6	5180.00	90.32	15.56	0.00	-90.32	150	330	Horizontal

Final Data List



4.10.1.2 802.11A_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	5135.56	38.99	15.40	54.00	15.01	150	146	Vertical
2	5141.17	52.79	15.44	74.00	21.21	150	141	Vertical
3	5145.92	39.51	15.48	54.00	14.49	150	146	Vertical
4	5148.17	52.25	15.50	74.00	21.75	150	152	Vertical
5	5180.00	97.93	15.56	0.00	-97.93	150	146	Vertical
6	5180.00	87.55	15.56	0.00	-87.55	150	146	Vertical

Final Data List

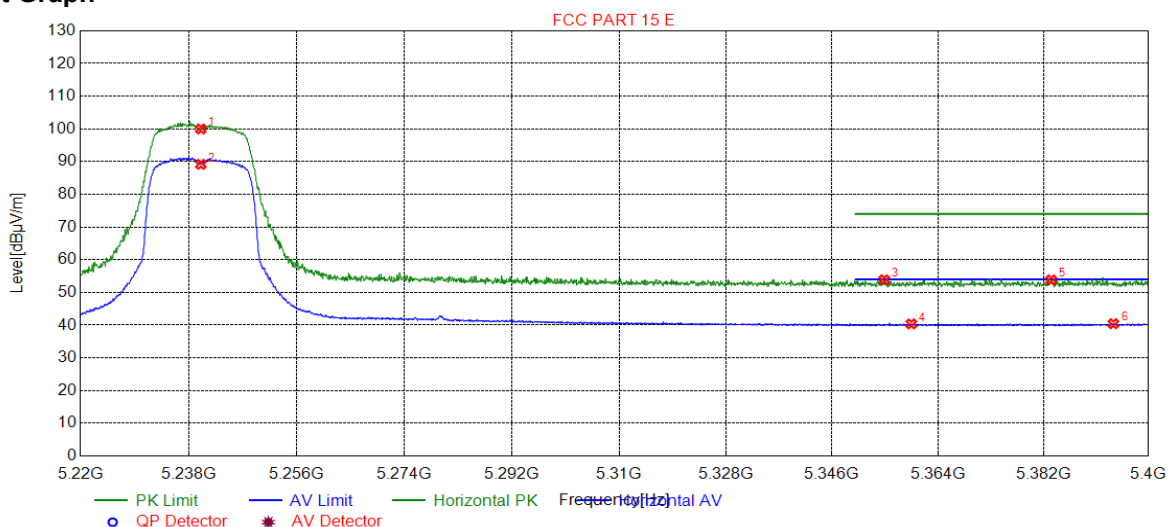


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4.10.1.3 802.11A_Channel 48

Test Graph



Suspected List

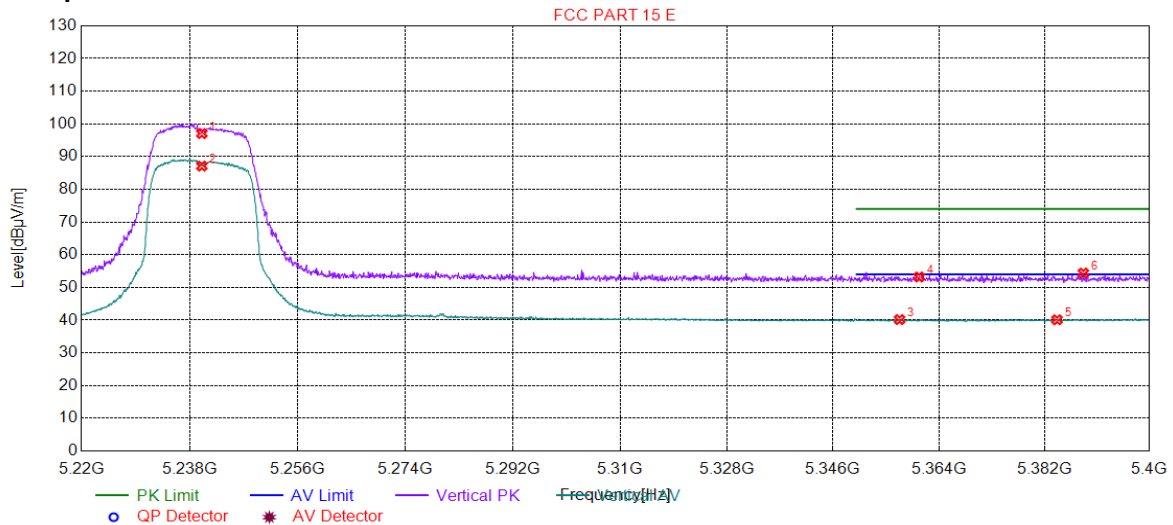
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	100.01	15.49	0.00	-100.01	150	143	Horizontal
2	5240.00	89.18	15.49	0.00	-89.18	150	151	Horizontal
3	5354.88	53.89	15.97	74.00	20.11	150	123	Horizontal
4	5359.47	40.40	16.00	54.00	13.60	150	143	Horizontal
5	5383.34	53.86	16.15	74.00	20.14	150	296	Horizontal
6	5393.96	40.46	16.21	54.00	13.54	150	76	Horizontal

Final Data List



4.10.1.4 802.11A_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	5240.00	97.06	15.49	0.00	-97.06	150	88	Vertical
2	5240.00	87.12	15.49	0.00	-87.12	150	82	Vertical
3	5357.31	40.19	15.99	54.00	13.81	150	88	Vertical
4	5360.65	53.22	16.01	74.00	20.78	150	102	Vertical
5	5384.15	40.13	16.15	54.00	13.87	150	301	Vertical
6	5388.65	54.41	16.18	74.00	19.59	150	82	Vertical

Final Data List

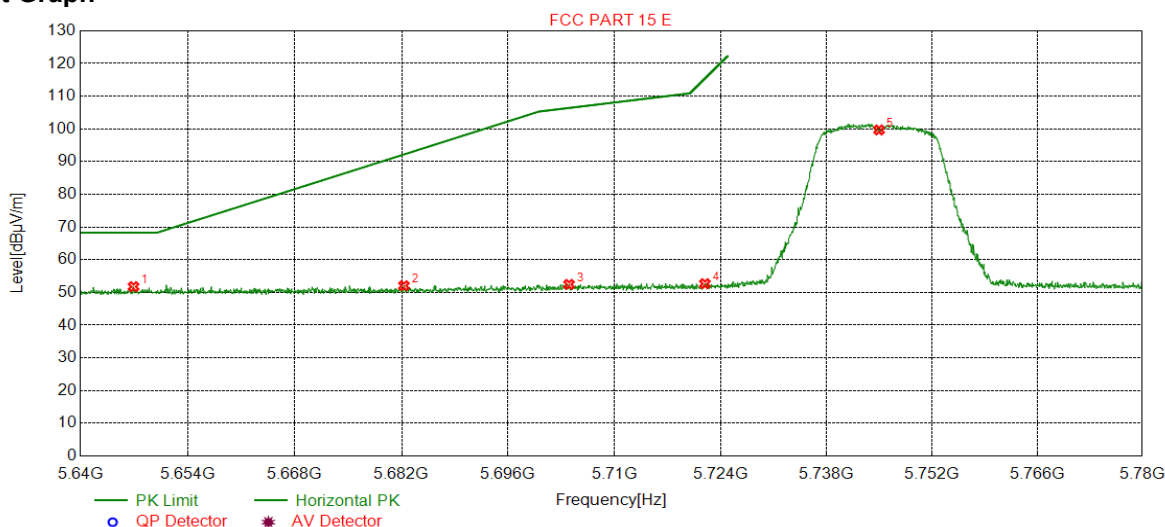


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4.10.1.5 802.11A_Channel 149

Test Graph



Suspected List

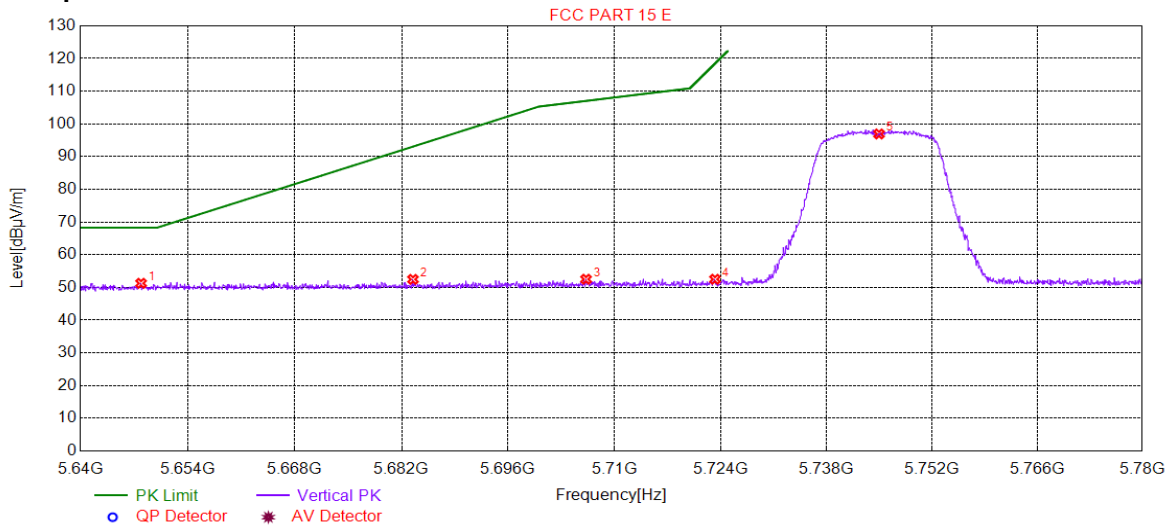
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.93	51.78	16.53	68.30	16.52	150	84	Horizontal
2	5682.30	52.07	16.70	92.20	40.13	150	89	Horizontal
3	5704.01	52.48	16.83	106.42	53.94	150	98	Horizontal
4	5721.94	52.69	16.94	115.33	62.64	150	108	Horizontal
5	5745.00	99.70	17.09	0.00	-99.70	150	280	Horizontal

Final Data List



4.10.1.6 802.11A_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.91	51.28	16.53	68.30	17.02	150	341	Vertical
2	5683.49	52.48	16.71	93.08	40.60	150	135	Vertical
3	5706.25	52.53	16.84	107.05	54.52	150	157	Vertical
4	5723.27	52.52	16.95	118.36	65.84	150	125	Vertical
5	5745.00	96.94	17.09	0.00	-96.94	150	125	Vertical

Final Data List

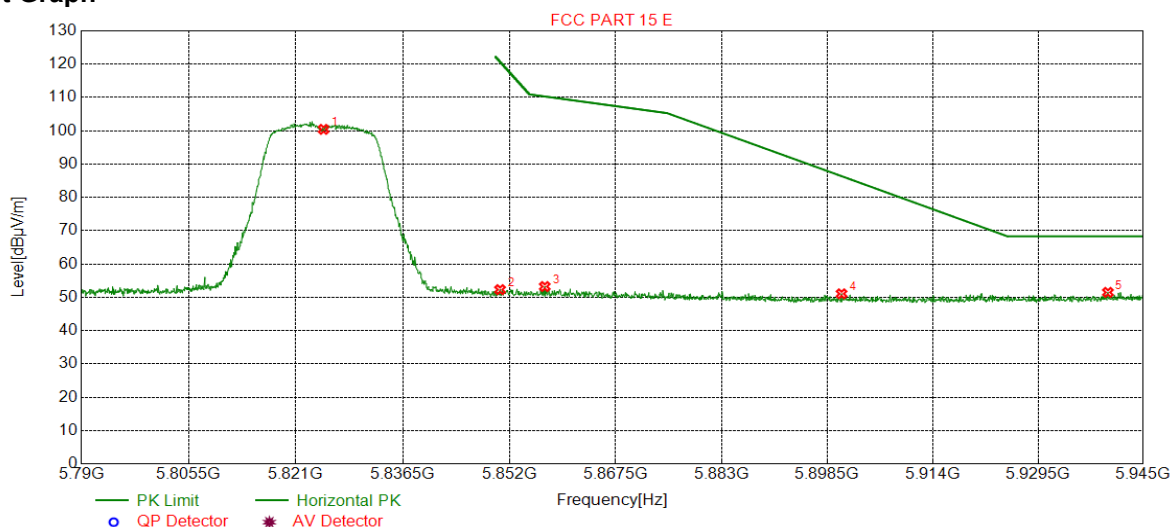


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4.10.1.7 802.11A_Channel 165

Test Graph



Suspected List

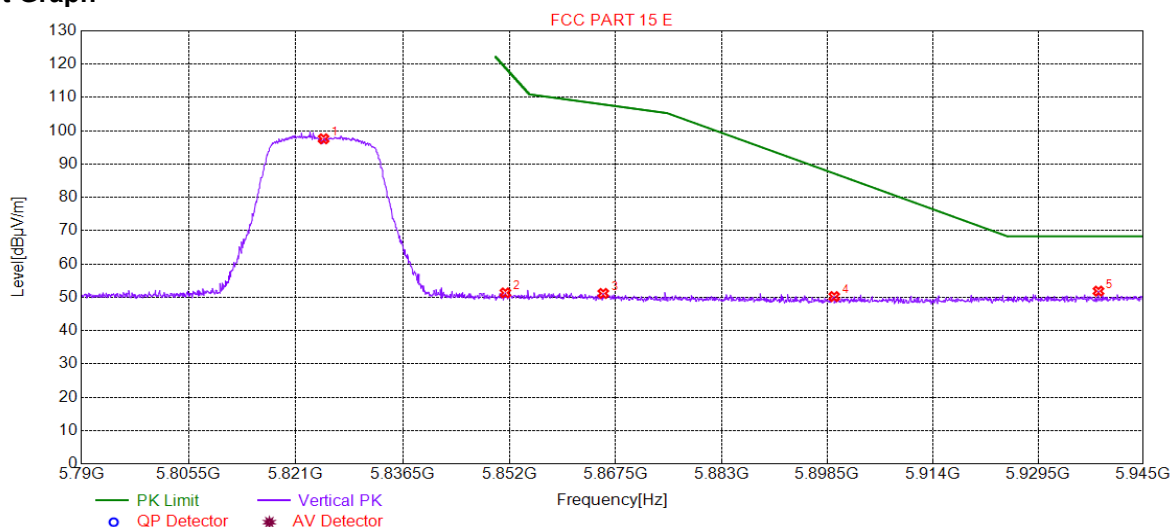
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	100.43	17.23	0.00	-100.43	150	105	Horizontal
2	5850.63	52.32	17.26	120.85	68.53	150	165	Horizontal
3	5857.14	53.25	17.24	110.30	57.05	150	101	Horizontal
4	5900.57	51.07	17.12	86.38	35.31	150	330	Horizontal
5	5939.80	51.50	17.72	68.30	16.80	150	229	Horizontal

Final Data List



4.10.1.8 802.11A_Channel 165

Test Graph



Suspected List

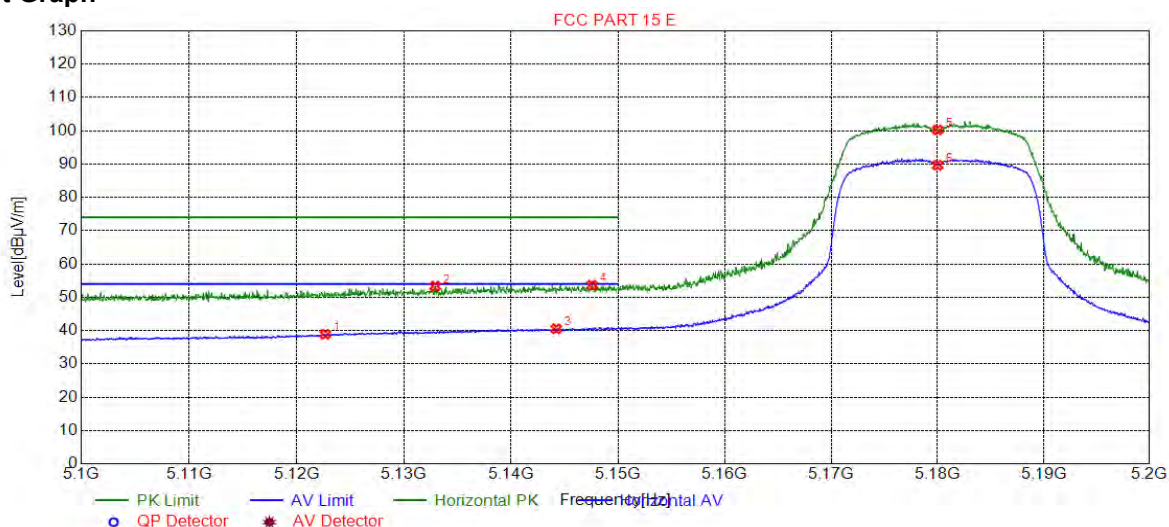
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	97.59	17.23	0.00	-97.59	150	288	Vertical
2	5851.41	51.35	17.26	119.08	67.73	150	80	Vertical
3	5865.67	51.18	17.21	107.91	56.73	150	108	Vertical
4	5899.48	50.25	17.11	87.18	36.93	150	94	Vertical
5	5938.40	51.88	17.70	68.30	16.42	150	278	Vertical

Final Data List



4.10.1.9 802.11N20_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	5122.66	38.93	15.28	54.00	15.07	150	143	Horizontal
2	5132.91	53.34	15.37	74.00	20.66	150	137	Horizontal
3	5144.22	40.55	15.47	54.00	13.45	150	331	Horizontal
4	5147.57	53.68	15.50	74.00	20.32	150	320	Horizontal
5	5180.00	100.26	15.56	0.00	-100.26	150	148	Horizontal
6	5180.00	89.65	15.56	0.00	-89.65	150	331	Horizontal

Final Data List

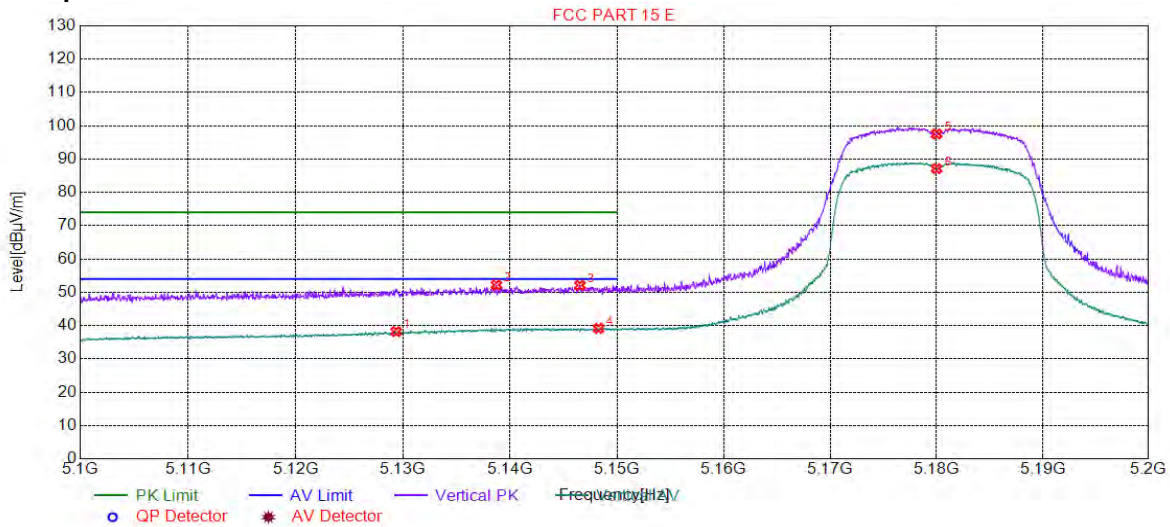


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4.10.1.10 802.11N20_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5129.36	38.23	15.34	54.00	15.77	150	146	Vertical
2	5138.71	52.21	15.42	74.00	21.79	150	146	Vertical
3	5146.52	52.12	15.49	74.00	21.88	150	146	Vertical
4	5148.27	39.19	15.51	54.00	14.81	150	152	Vertical
5	5180.00	97.55	15.56	0.00	-97.55	150	85	Vertical
6	5180.00	87.12	15.56	0.00	-87.12	150	146	Vertical

Final Data List



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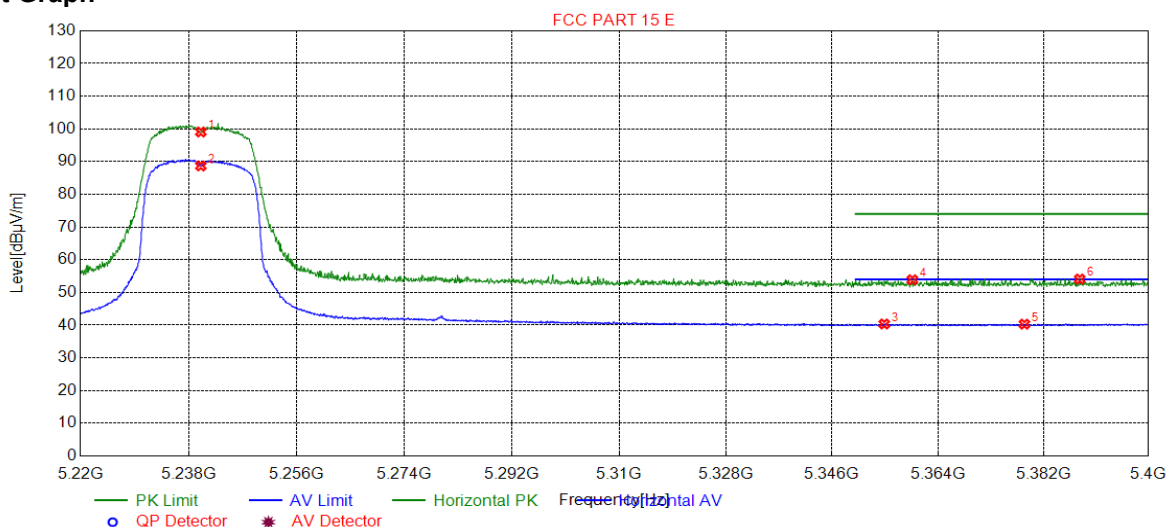
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4.10.1.11 802.11N20_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	99.08	15.49	0.00	-99.08	150	146	Horizontal
2	5240.00	88.69	15.49	0.00	-88.69	150	332	Horizontal
3	5354.88	40.37	15.97	54.00	13.63	150	85	Horizontal
4	5359.65	53.89	16.00	74.00	20.11	150	229	Horizontal
5	5378.74	40.32	16.12	54.00	13.68	150	65	Horizontal
6	5388.20	54.11	16.18	74.00	19.89	150	133	Horizontal

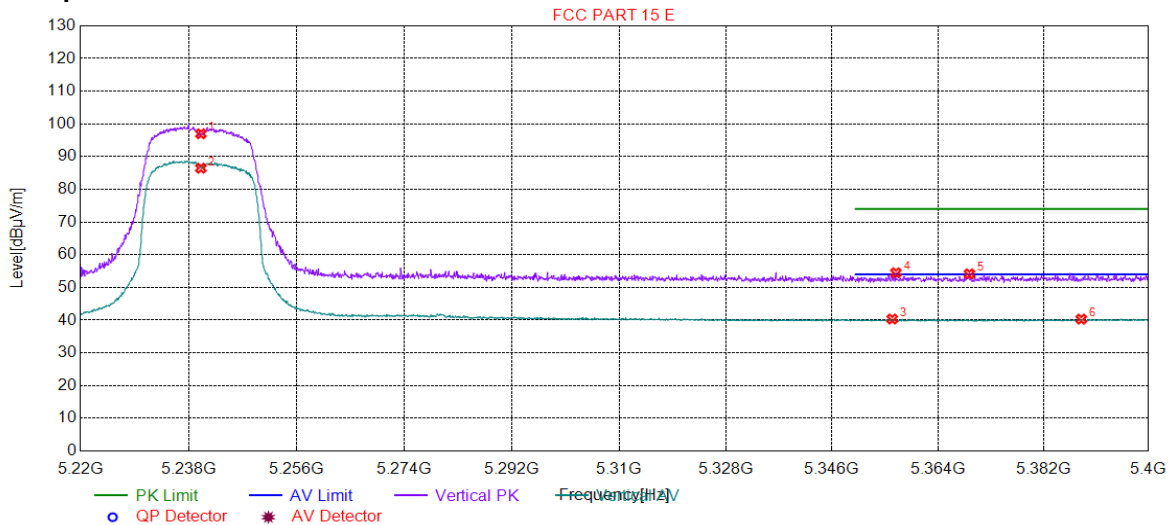
Final Data List





4.10.1.12 802.11N20_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	96.99	15.49	0.00	-96.99	150	84	Vertical
2	5240.00	86.48	15.49	0.00	-86.48	150	139	Vertical
3	5356.23	40.36	15.98	54.00	13.64	150	291	Vertical
4	5356.86	54.50	15.98	74.00	19.50	150	215	Vertical
5	5369.38	54.17	16.06	74.00	19.83	150	174	Vertical
6	5388.47	40.33	16.18	54.00	13.67	150	78	Vertical

Final Data List



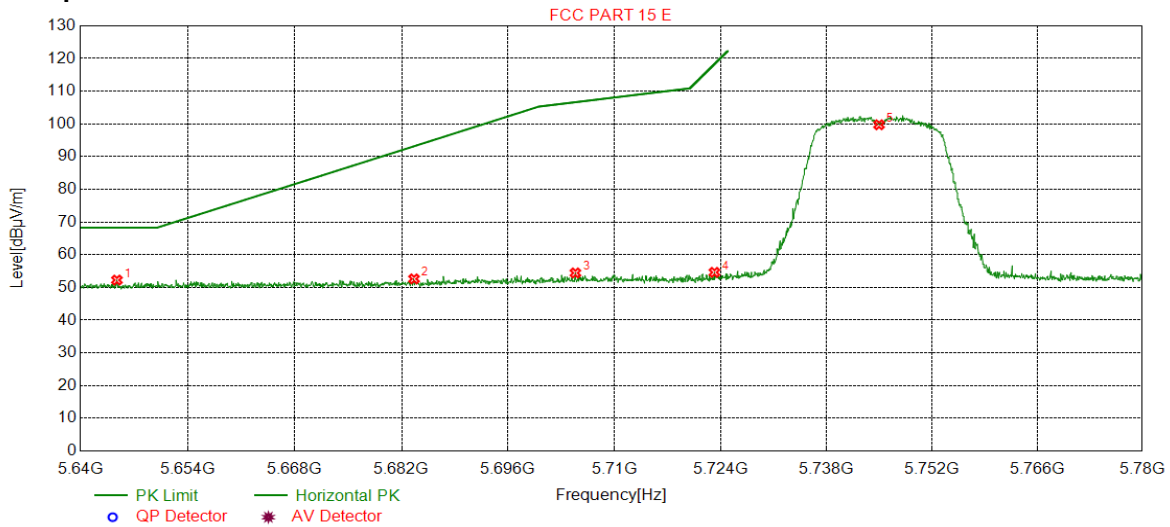
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4.10.1.13 802.11N20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.76	52.27	16.54	68.30	16.03	150	344	Horizontal
2	5683.63	52.63	16.71	93.19	40.56	150	308	Horizontal
3	5704.85	54.44	16.83	106.66	52.22	150	280	Horizontal
4	5723.20	54.63	16.95	118.20	63.57	150	146	Horizontal
5	5745.00	99.75	17.09	0.00	-99.75	150	280	Horizontal

Final Data List



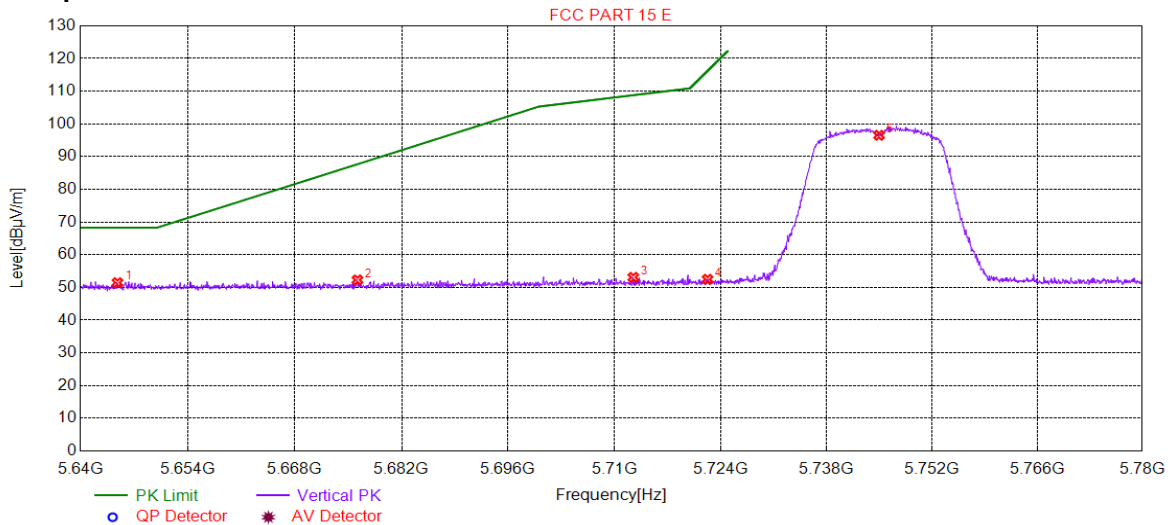
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4.10.1.14 802.11N20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.83	51.48	16.54	68.30	16.82	150	29	Vertical
2	5676.20	52.31	16.67	87.69	35.38	150	278	Vertical
3	5712.48	53.10	16.88	108.80	55.70	150	288	Vertical
4	5722.29	52.51	16.94	116.12	63.61	150	302	Vertical
5	5745.00	96.54	17.09	0.00	-96.54	150	141	Vertical

Final Data List

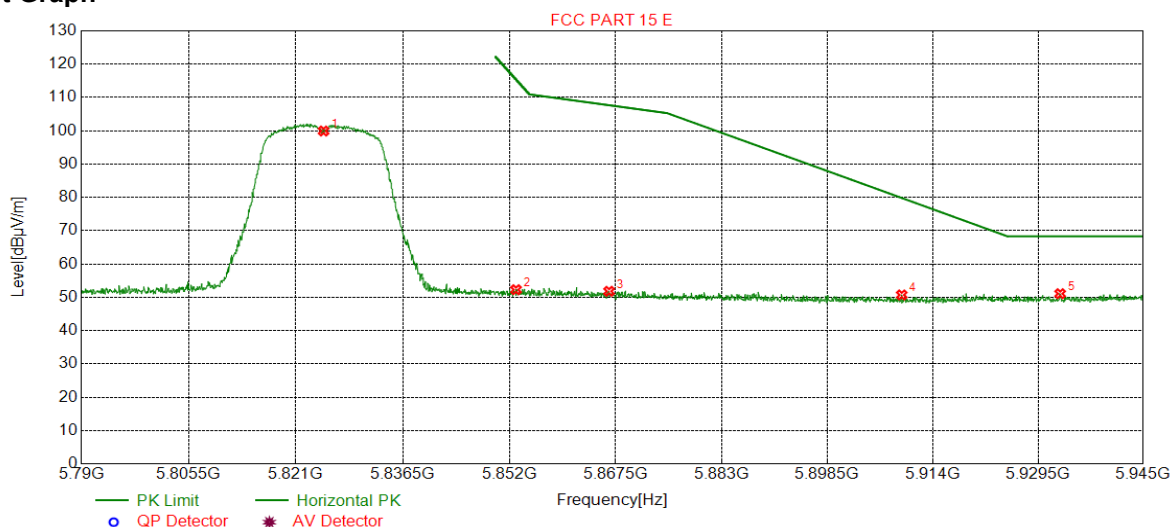


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4.10.1.15 802.11N20_Channel 165

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	99.93	17.23	0.00	-99.93	150	98	Horizontal
2	5852.96	52.30	17.25	115.55	63.25	150	112	Horizontal
3	5866.53	51.83	17.21	107.67	55.84	150	298	Horizontal
4	5909.40	50.73	17.25	79.84	29.11	150	298	Horizontal
5	5932.74	51.10	17.61	68.30	17.20	150	163	Horizontal

Final Data List

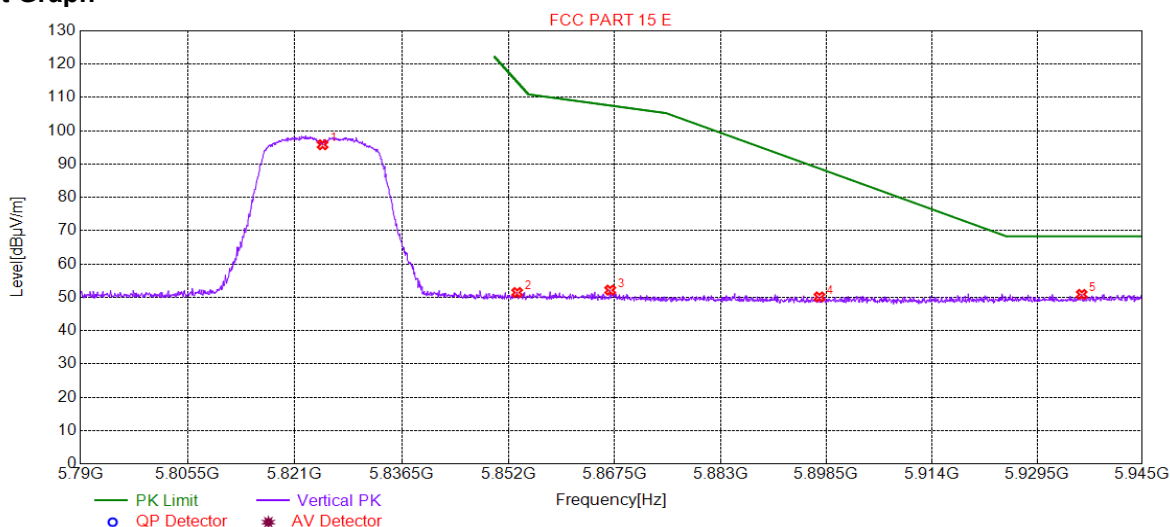


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4.10.1.16 802.11N20_Channel 165

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	95.81	17.23	0.00	-95.81	150	160	Vertical
2	5853.27	51.45	17.25	114.84	63.39	150	146	Vertical
3	5866.84	52.17	17.21	107.58	55.41	150	136	Vertical
4	5897.46	50.14	17.12	88.67	38.53	150	136	Vertical
5	5936.08	50.89	17.67	68.30	17.41	150	122	Vertical

Final Data List

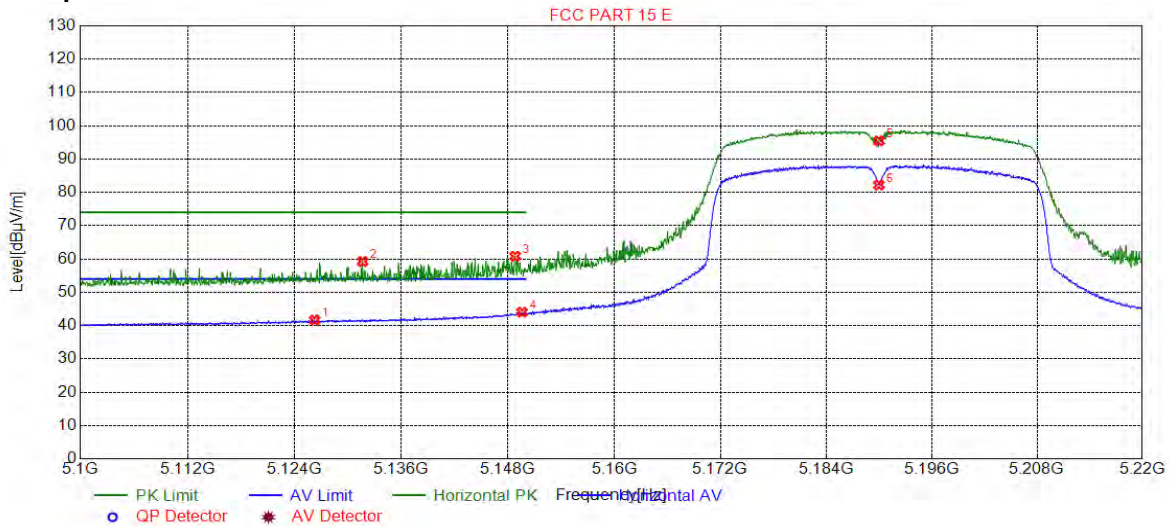


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4.10.1.17 802.11N40_Channel 38

Test Graph



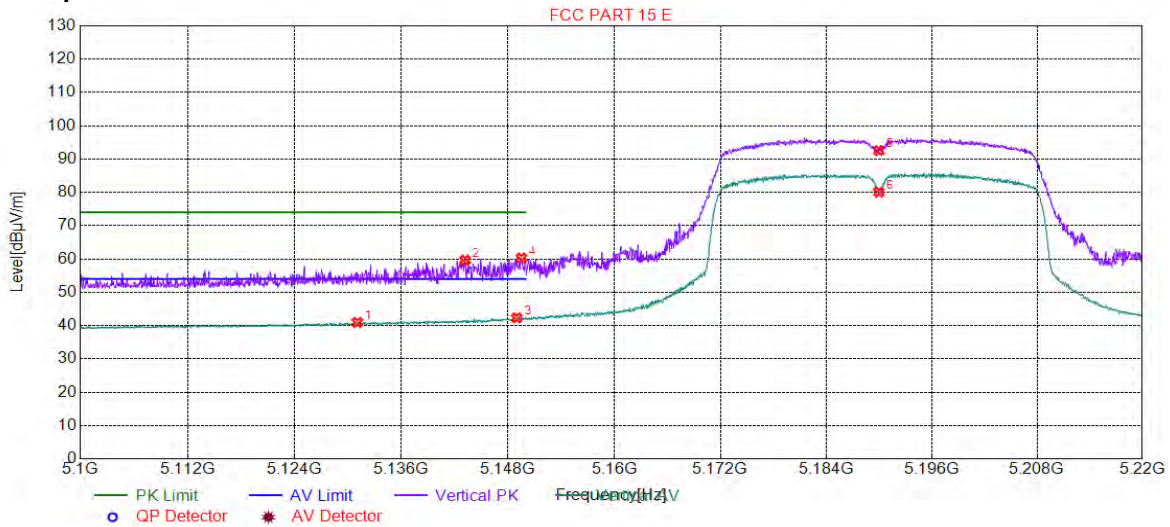
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5126.23	41.68	15.32	54.00	12.32	150	335	Horizontal
2	5131.63	59.25	15.36	74.00	14.75	150	67	Horizontal
3	5148.80	60.85	15.51	74.00	13.15	150	67	Horizontal
4	5149.58	44.05	15.52	54.00	9.95	150	335	Horizontal
5	5190.00	95.49	15.58	0.00	-95.49	150	330	Horizontal
6	5190.00	82.23	15.58	0.00	-82.23	150	150	Horizontal

Final Data List

4.10.1.18 802.11N40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5131.03	40.98	15.36	54.00	13.02	150	151	Vertical
2	5143.16	59.64	15.46	74.00	14.36	150	134	Vertical
3	5148.98	42.36	15.51	54.00	11.64	150	151	Vertical
4	5149.52	60.29	15.52	74.00	13.71	150	146	Vertical
5	5190.00	92.53	15.58	0.00	-92.53	150	134	Vertical
6	5190.00	80.07	15.58	0.00	-80.07	150	151	Vertical

Final Data List



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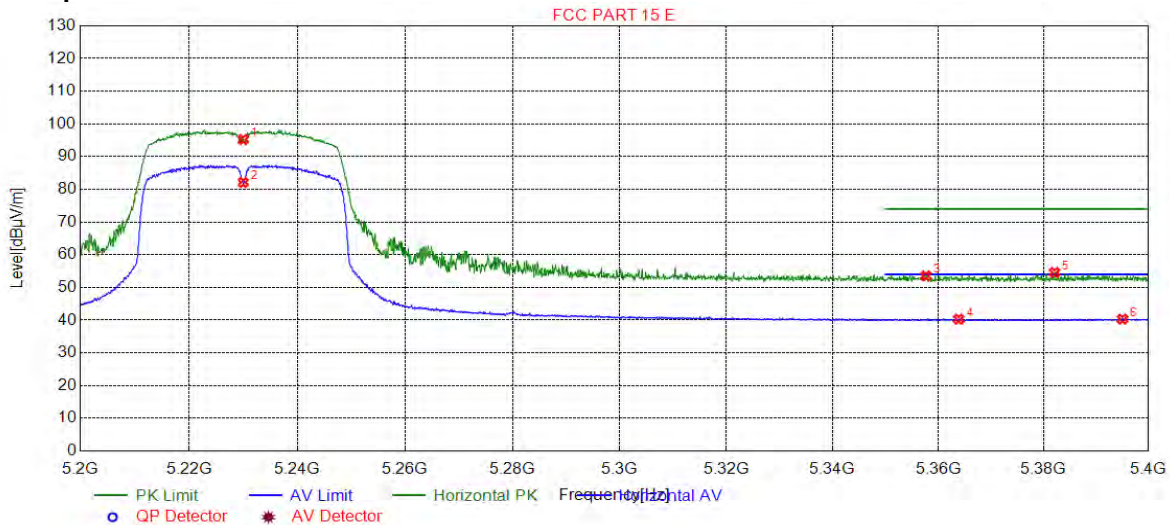
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4.10.1.19 802.11N40_Channel 46

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	95.25	15.51	0.00	-95.25	150	324	Horizontal
2	5230.00	82.11	15.51	0.00	-82.11	150	145	Horizontal
3	5357.67	53.55	15.99	74.00	20.45	150	125	Horizontal
4	5363.88	40.32	16.03	54.00	13.68	150	256	Horizontal
5	5382.09	54.61	16.14	74.00	19.39	150	145	Horizontal
6	5394.99	40.34	16.22	54.00	13.66	150	56	Horizontal

Final Data List



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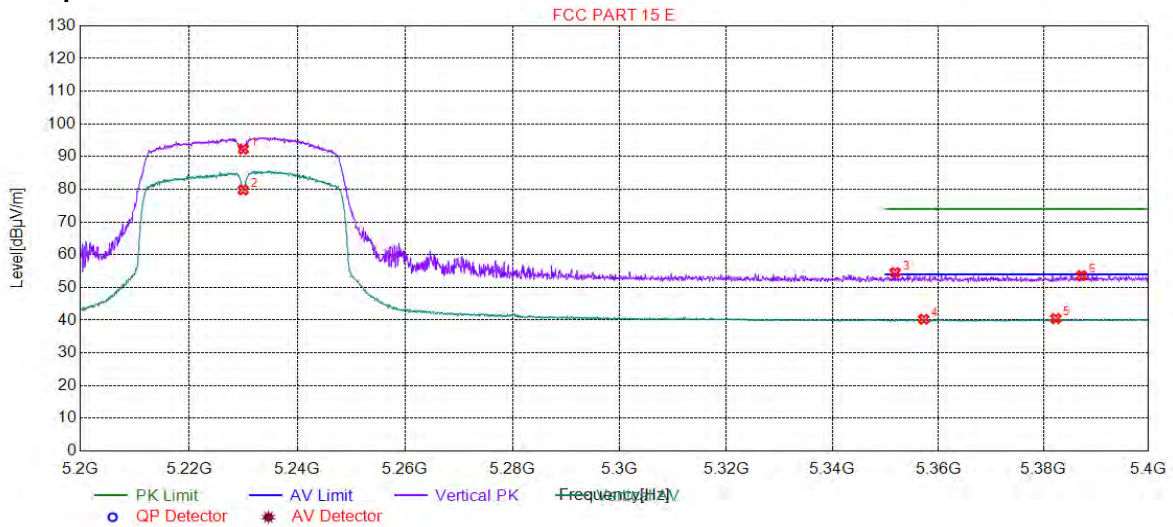
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4.10.1.20 802.11N40_Channel 46

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	92.28	15.51	0.00	-92.28	150	84	Vertical
2	5230.00	79.82	15.51	0.00	-79.82	150	92	Vertical
3	5351.87	54.58	15.95	74.00	19.42	150	92	Vertical
4	5357.27	40.28	15.99	54.00	13.72	150	92	Vertical
5	5382.29	40.49	16.14	54.00	13.51	150	133	Vertical
6	5387.19	53.65	16.17	74.00	20.35	150	126	Vertical

Final Data List



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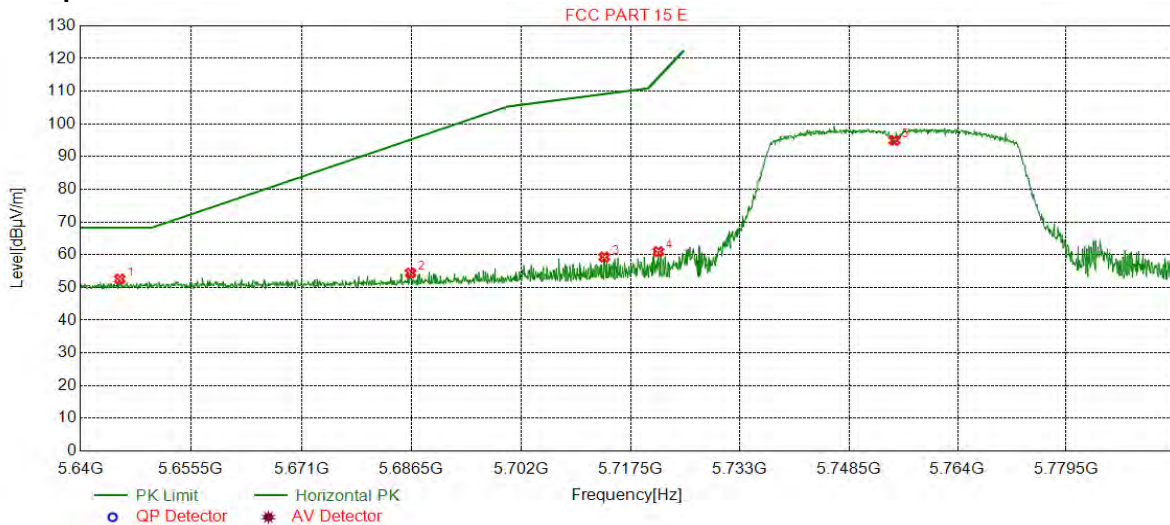
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4.10.1.21 802.11N40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.50	52.59	16.54	68.30	15.71	150	289	Horizontal
2	5686.36	54.40	16.73	95.21	40.81	150	330	Horizontal
3	5713.73	59.33	16.89	109.15	49.82	150	330	Horizontal
4	5721.41	60.98	16.94	114.13	53.15	150	330	Horizontal
5	5755.00	94.98	17.13	0.00	-94.98	150	108	Horizontal

Final Data List

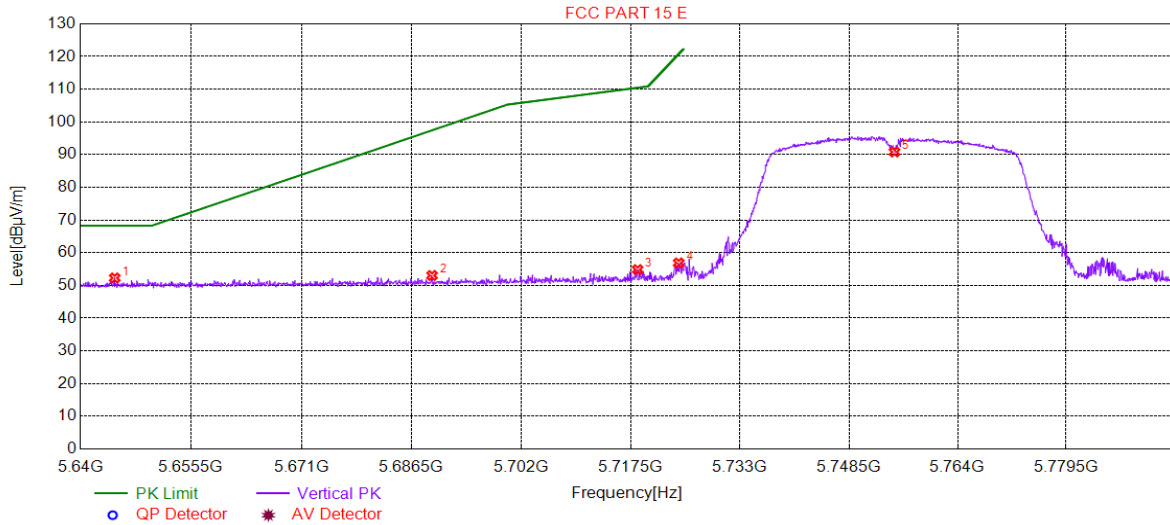


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4.10.1.22 802.11N40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.80	52.30	16.54	68.30	16.00	150	339	Vertical
2	5689.39	53.06	16.74	97.45	44.39	150	117	Vertical
3	5718.46	54.86	16.92	110.47	55.61	150	293	Vertical
4	5724.28	56.89	16.96	120.67	63.78	150	121	Vertical
5	5755.00	90.82	17.13	0.00	-90.82	150	149	Vertical

Final Data List



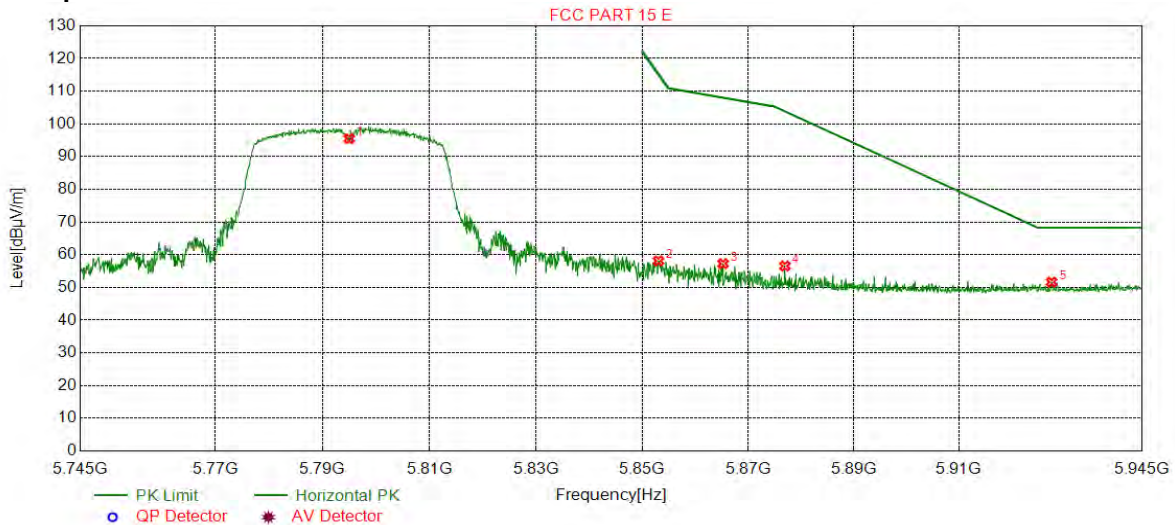
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4.10.1.23 802.11N40_Channel 159

Test Graph



Suspected List

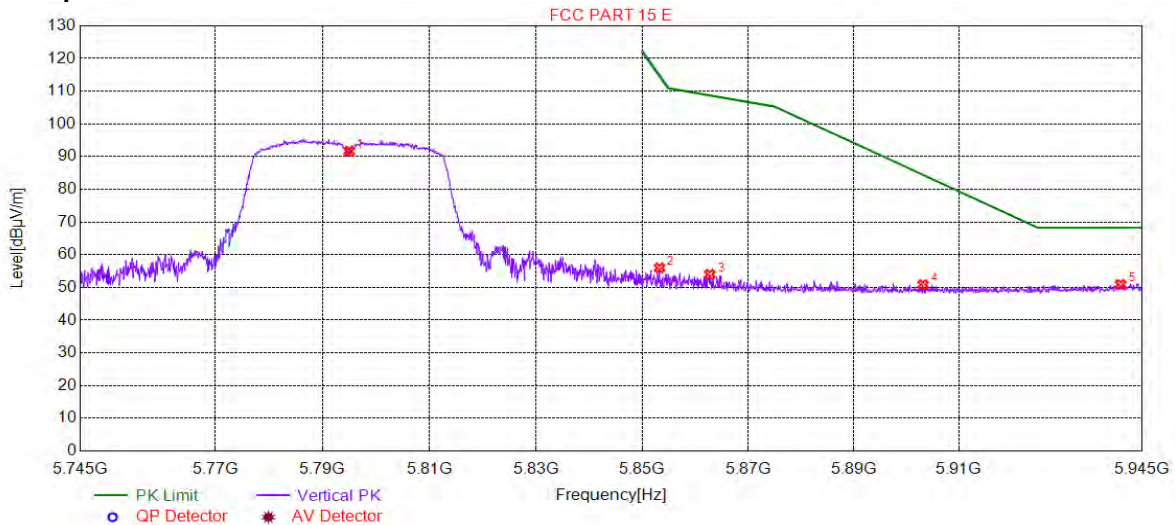
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	95.48	17.18	0.00	-95.48	150	281	Horizontal
2	5853.05	58.14	17.25	115.34	57.20	150	326	Horizontal
3	5865.26	57.27	17.21	108.03	50.76	150	107	Horizontal
4	5876.96	56.57	17.18	103.85	47.28	150	281	Horizontal
5	5927.69	51.64	17.54	68.30	16.66	150	286	Horizontal

Final Data List



4.10.1.24 802.11N40_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	5795.00	91.63	17.18	0.00	-91.63	150	151	Vertical
2	5853.25	55.98	17.25	114.88	58.90	150	165	Vertical
3	5862.75	53.99	17.22	108.73	54.74	150	69	Vertical
4	5903.17	50.84	17.16	84.45	33.61	150	36	Vertical
5	5940.89	50.93	17.74	68.30	17.37	150	64	Vertical

Final Data List

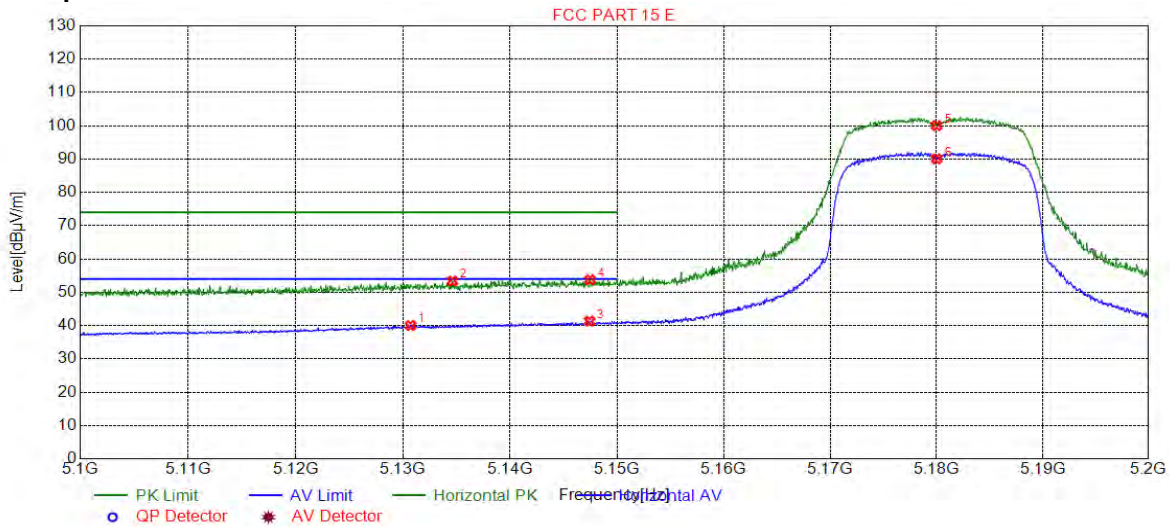


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4.10.1.25 802.11AC20_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5130.71	40.04	15.35	54.00	13.96	150	335	Horizontal
2	5134.61	53.40	15.39	74.00	20.60	150	301	Horizontal
3	5147.42	41.34	15.50	54.00	12.66	150	335	Horizontal
4	5147.47	53.78	15.50	74.00	20.22	150	78	Horizontal
5	5180.00	100.03	15.56	0.00	-100.03	150	144	Horizontal
6	5180.00	90.08	15.56	0.00	-90.08	150	335	Horizontal

Final Data List



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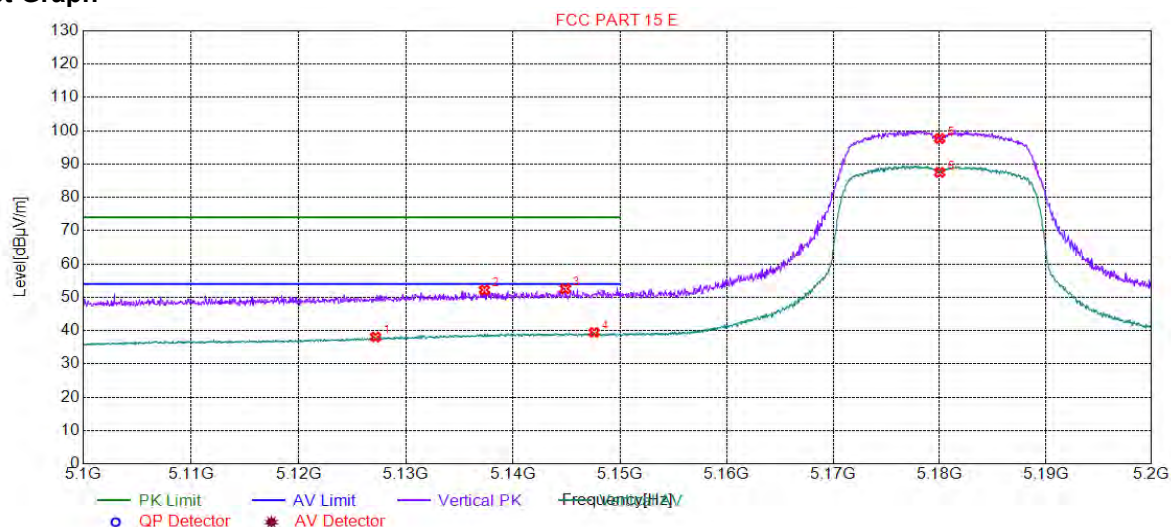
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4.10.1.26 802.11AC20_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5127.16	38.11	15.32	54.00	15.89	150	148	Vertical
2	5137.31	52.22	15.41	74.00	21.78	150	148	Vertical
3	5144.87	52.62	15.48	74.00	21.38	150	148	Vertical
4	5147.57	39.49	15.50	54.00	14.51	150	148	Vertical
5	5180.00	97.67	15.56	0.00	-97.67	150	154	Vertical
6	5180.00	87.50	15.56	0.00	-87.50	150	148	Vertical

Final Data List



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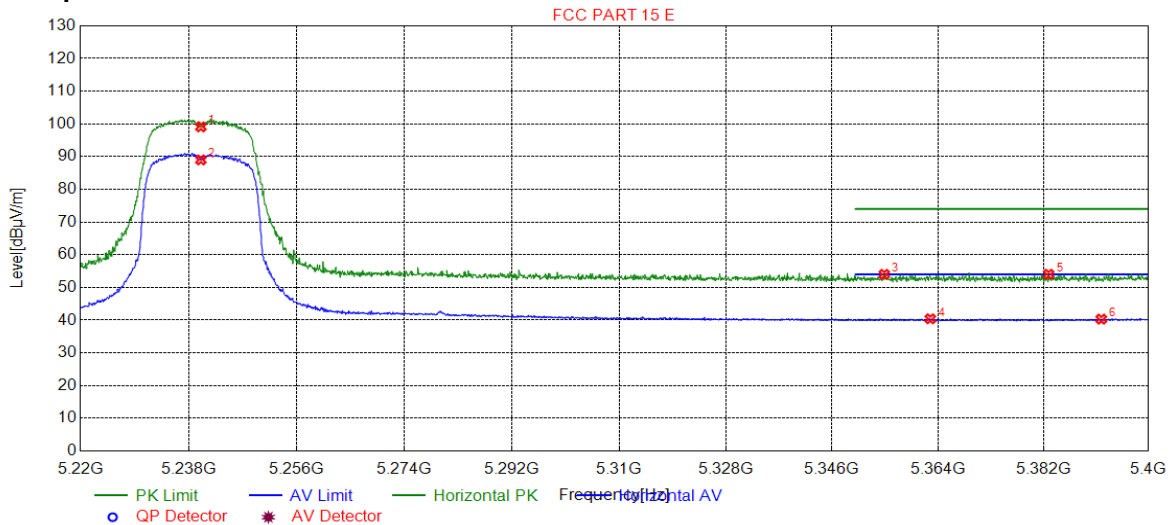
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4.10.1.27 802.11AC20_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	99.10	15.49	0.00	-99.10	150	329	Horizontal
2	5240.00	89.00	15.49	0.00	-89.00	150	329	Horizontal
3	5354.88	54.03	15.97	74.00	19.97	150	233	Horizontal
4	5362.72	40.42	16.02	54.00	13.58	150	67	Horizontal
5	5382.89	54.06	16.14	74.00	19.94	150	163	Horizontal
6	5391.89	40.33	16.20	54.00	13.67	150	170	Horizontal

Final Data List



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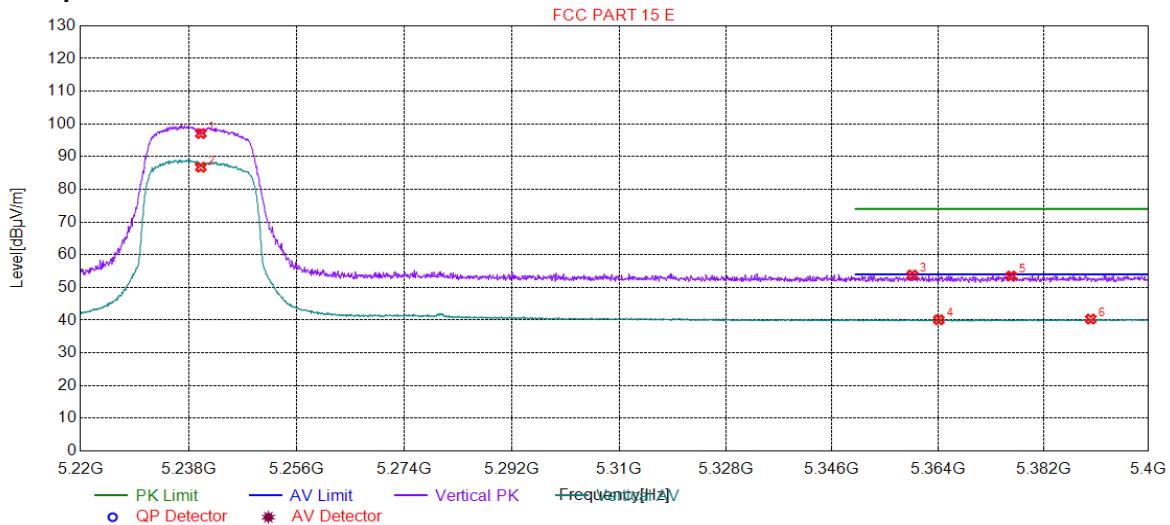
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4.10.1.28 802.11AC20_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	97.06	15.49	0.00	-97.06	150	90	Vertical
2	5240.00	86.77	15.49	0.00	-86.77	150	97	Vertical
3	5359.65	53.81	16.00	74.00	20.19	150	159	Vertical
4	5364.16	40.13	16.03	54.00	13.87	150	76	Vertical
5	5376.49	53.52	16.10	74.00	20.48	150	179	Vertical
6	5390.09	40.35	16.19	54.00	13.65	150	90	Vertical

Final Data List



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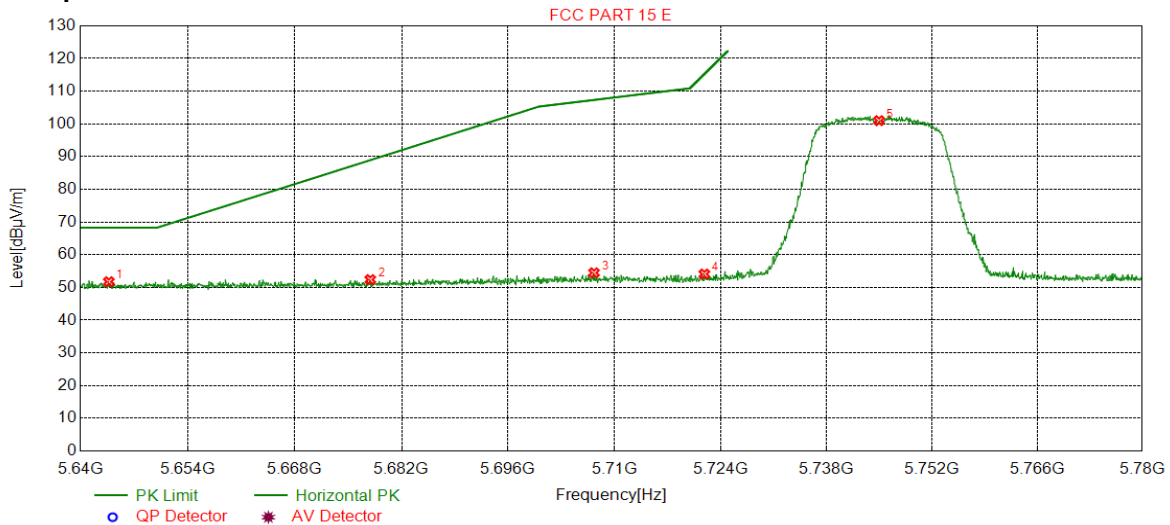
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4.10.1.29 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.71	51.76	16.54	68.30	16.54	150	113	Horizontal
2	5677.88	52.41	16.68	88.94	36.53	150	108	Horizontal
3	5707.30	54.49	16.85	107.35	52.86	150	280	Horizontal
4	5721.87	54.11	16.94	115.17	61.06	150	275	Horizontal
5	5745.00	101.01	17.09	0.00	-101.01	150	280	Horizontal

Final Data List

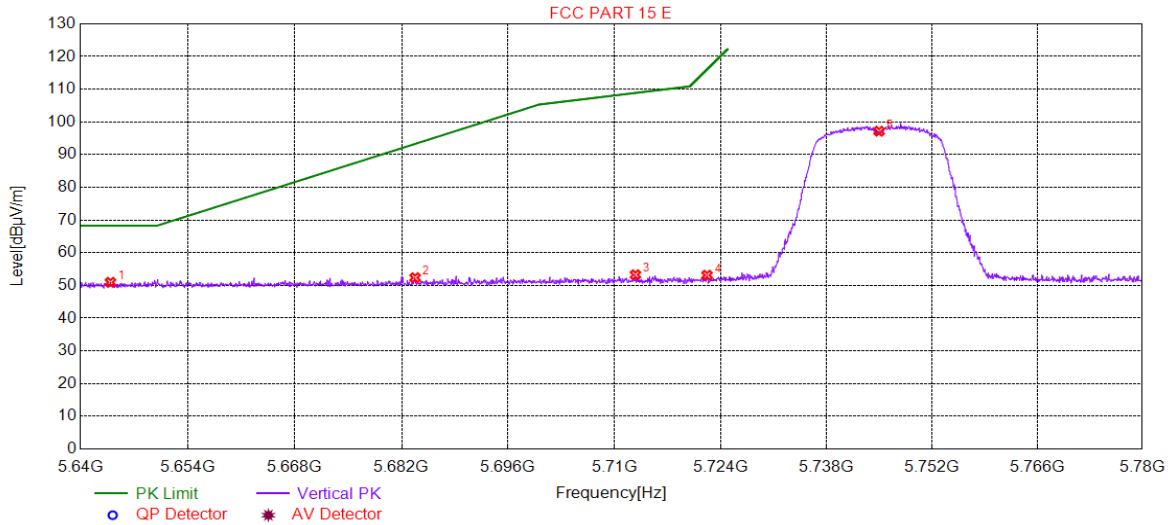


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4.10.1.30 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.92	50.96	16.54	68.30	17.34	150	180	Vertical
2	5683.77	52.37	16.71	93.29	40.92	150	278	Vertical
3	5712.76	53.28	16.88	108.87	55.59	150	291	Vertical
4	5722.22	53.15	16.94	115.96	62.81	150	125	Vertical
5	5745.00	97.17	17.09	0.00	-97.17	150	153	Vertical

Final Data List

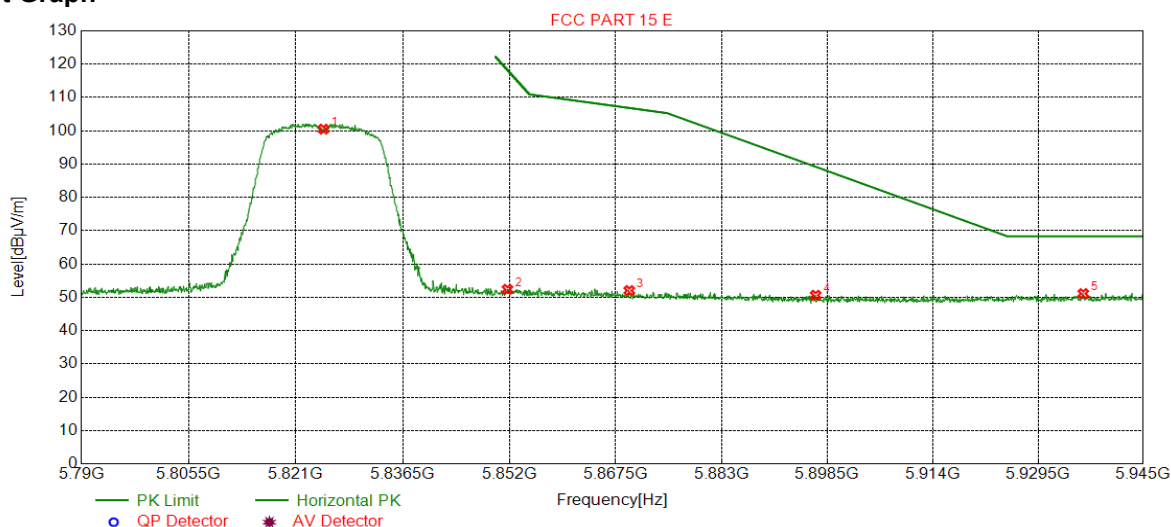


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4.10.1.31 802.11AC20_Channel 165

Test Graph



Suspected List

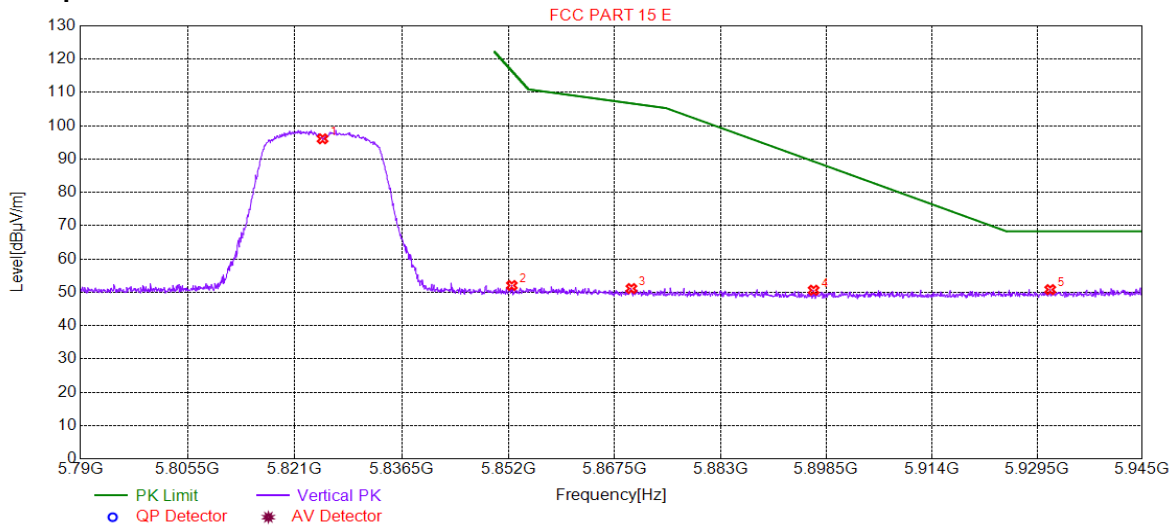
Suspected List								
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1	5825.00	100.50	17.23	0.00	-100.50	150	284	Horizontal
2	5851.72	52.40	17.25	118.38	65.98	150	98	Horizontal
3	5869.47	52.04	17.20	106.85	54.81	150	280	Horizontal
4	5896.77	50.63	17.12	89.19	38.56	150	121	Horizontal
5	5936.16	51.13	17.67	68.30	17.17	150	344	Horizontal

Final Data List



4.10.1.32 802.11AC20_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	5825.00	96.09	17.23	0.00	-96.09	150	288	Vertical
2	5852.49	52.07	17.25	116.61	64.54	150	182	Vertical
3	5869.94	51.15	17.20	106.72	55.57	150	159	Vertical
4	5896.61	50.66	17.12	89.30	38.64	150	66	Vertical
5	5931.43	50.83	17.59	68.30	17.47	150	135	Vertical

Final Data List



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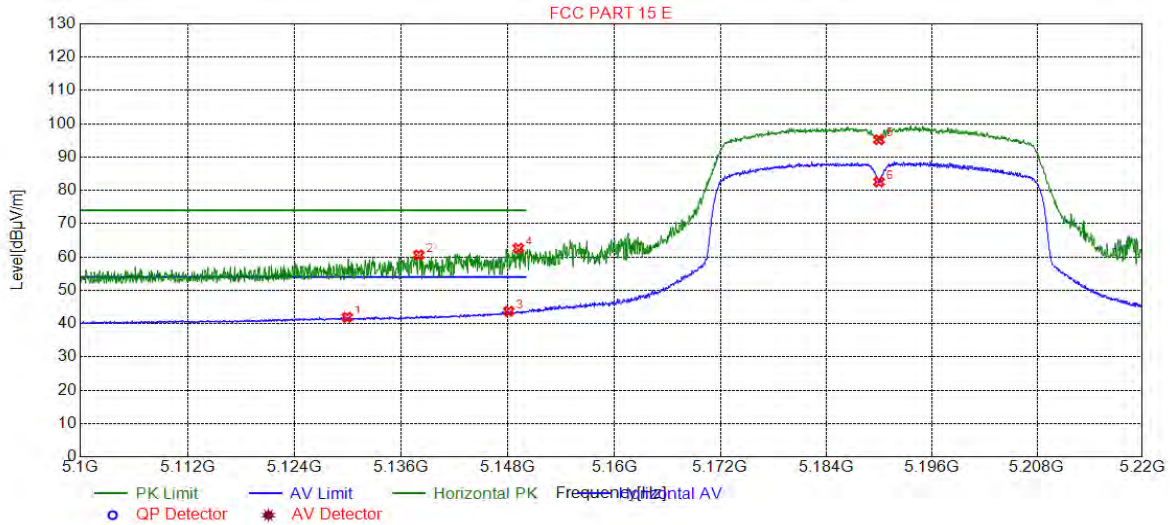
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4.10.1.33 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5129.89	41.91	15.35	54.00	12.09	150	336	Horizontal
2	5137.93	60.63	15.42	74.00	13.37	150	132	Horizontal
3	5148.08	43.72	15.50	54.00	10.28	150	336	Horizontal
4	5149.16	62.65	15.51	74.00	11.35	150	138	Horizontal
5	5190.00	95.21	15.58	0.00	-95.21	150	324	Horizontal
6	5190.00	82.53	15.58	0.00	-82.53	150	143	Horizontal

Final Data List



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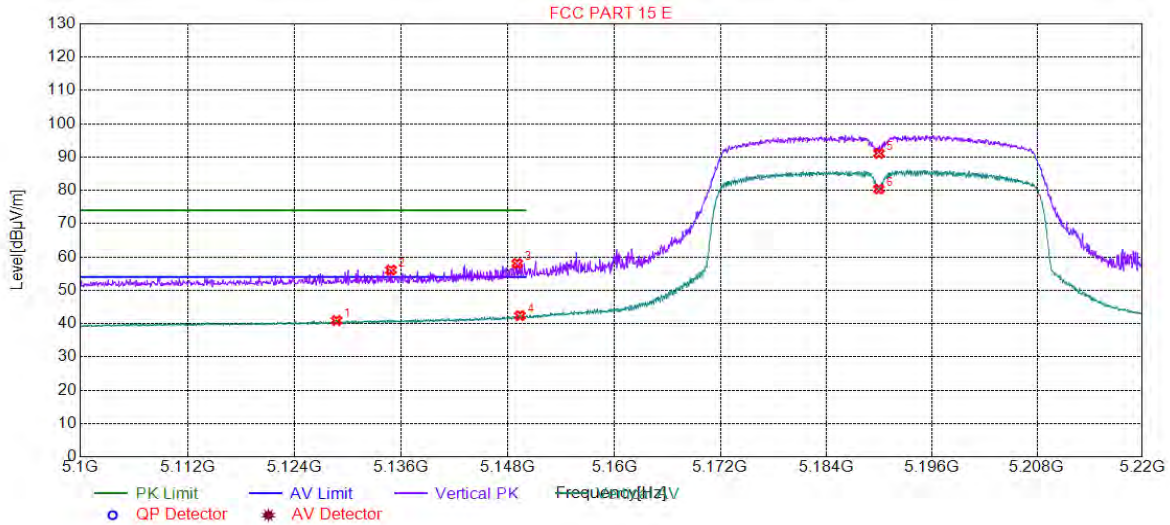
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4.10.1.34 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5128.69	40.94	15.34	54.00	13.06	150	146	Vertical
2	5134.81	56.10	15.39	74.00	17.90	150	289	Vertical
3	5149.04	58.09	15.51	74.00	15.91	150	289	Vertical
4	5149.34	42.42	15.51	54.00	11.58	150	151	Vertical
5	5190.00	91.10	15.58	0.00	-91.10	150	86	Vertical
6	5190.00	80.40	15.58	0.00	-80.40	150	151	Vertical

Final Data List



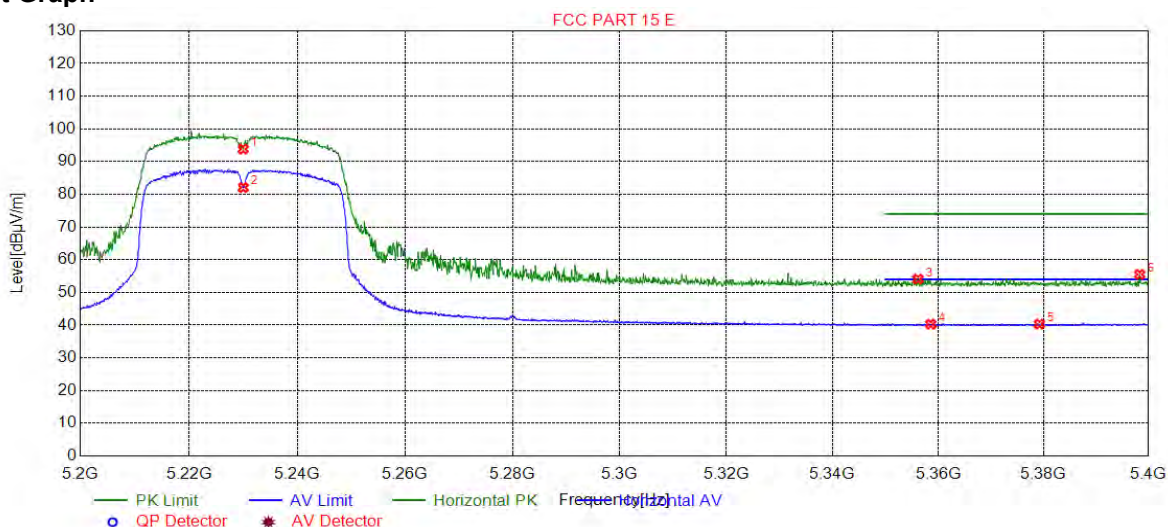
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4.10.1.35 802.11AC40_Channel 46

Test Graph



Suspected List

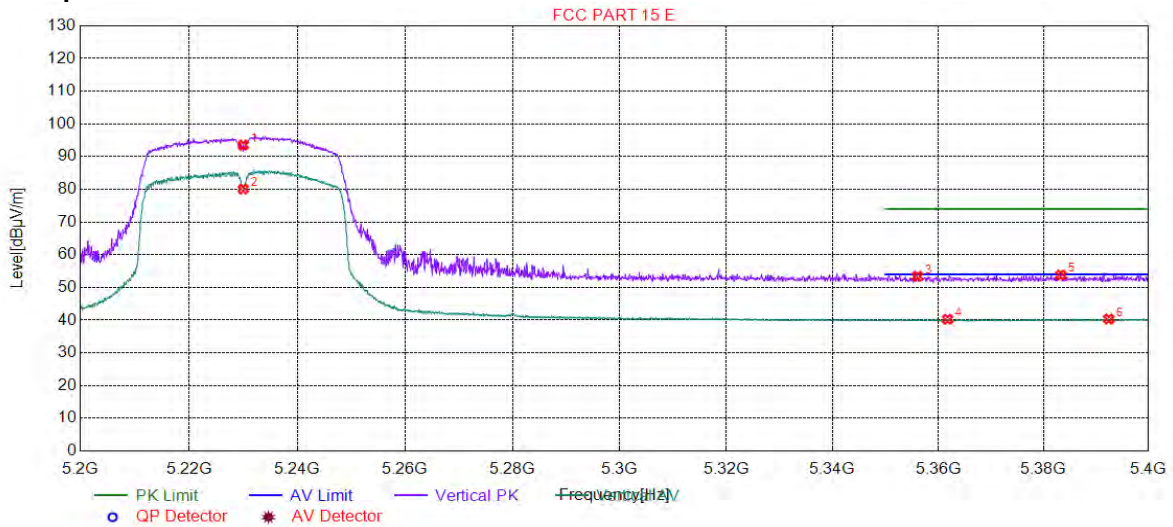
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	93.85	15.51	0.00	-93.85	150	135	Horizontal
2	5230.00	82.07	15.51	0.00	-82.07	150	149	Horizontal
3	5356.17	54.09	15.98	74.00	19.91	150	59	Horizontal
4	5358.57	40.35	15.99	54.00	13.65	150	156	Horizontal
5	5379.18	40.37	16.12	54.00	13.63	150	281	Horizontal
6	5398.29	55.50	16.24	74.00	18.50	150	114	Horizontal

Final Data List



4.10.1.36 802.11AC40_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	5230.00	93.53	15.51	0.00	-93.53	150	153	Vertical
2	5230.00	80.10	15.51	0.00	-80.10	150	91	Vertical
3	5356.07	53.45	15.98	74.00	20.55	150	257	Vertical
4	5361.78	40.30	16.01	54.00	13.70	150	91	Vertical
5	5383.29	53.81	16.15	74.00	20.19	150	84	Vertical
6	5392.39	40.36	16.20	54.00	13.64	150	98	Vertical

Final Data List



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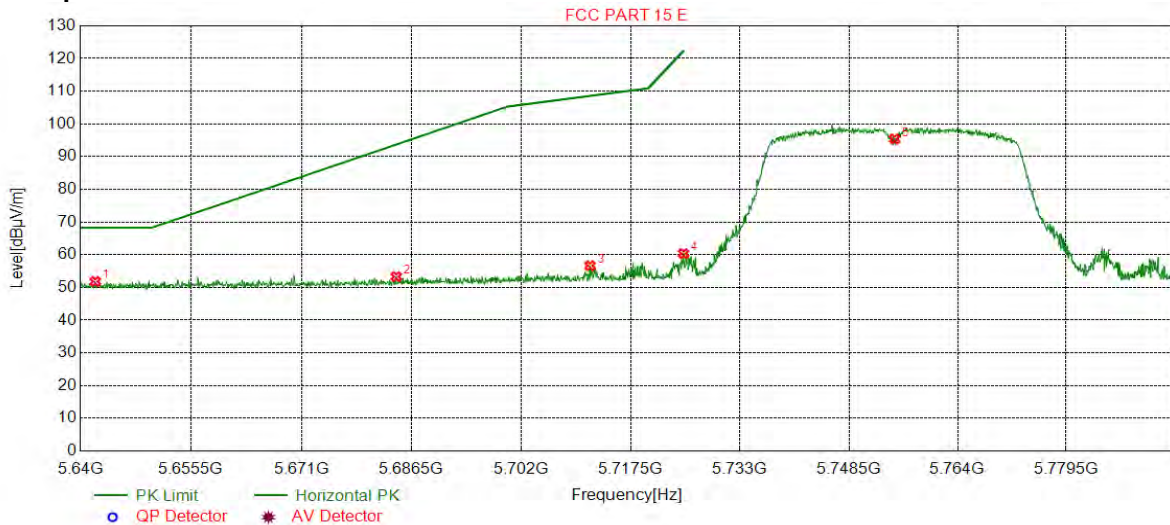
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4.10.1.37 802.11AC40_Channel 151

Test Graph



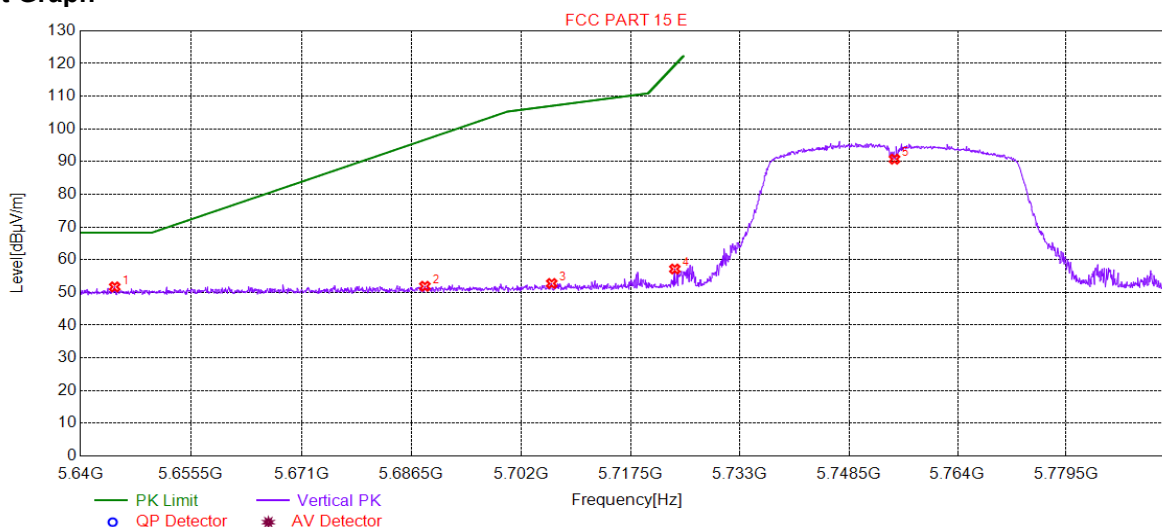
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5642.09	51.84	16.54	68.30	16.46	150	289	Horizontal
2	5684.35	53.33	16.72	93.72	40.39	150	92	Horizontal
3	5711.72	56.67	16.88	108.58	51.91	150	326	Horizontal
4	5724.98	60.38	16.96	122.26	61.88	150	100	Horizontal
5	5755.00	95.42	17.13	0.00	-95.42	150	284	Horizontal

Final Data List

4.10.1.38 802.11AC40_Channel 151

Test Graph



Suspected List

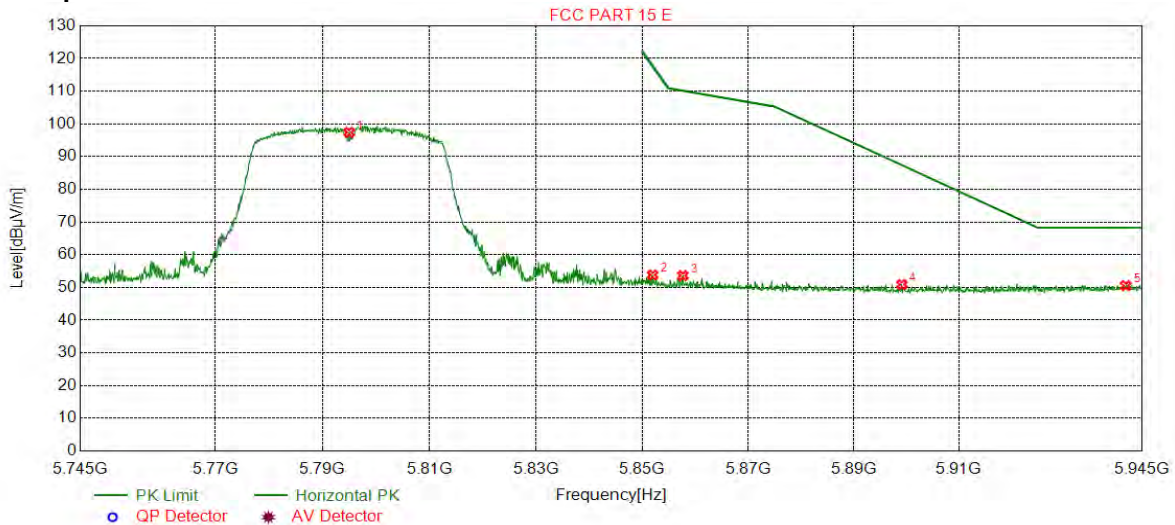
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.80	51.71	16.54	68.30	16.59	150	131	Vertical
2	5688.38	51.90	16.74	96.70	44.80	150	16	Vertical
3	5706.29	52.76	16.84	107.06	54.30	150	140	Vertical
4	5723.74	57.18	16.95	119.43	62.25	150	157	Vertical
5	5755.00	90.77	17.13	0.00	-90.77	150	66	Vertical

Final Data List



4.10.1.39 802.11AC40_Channel 159

Test Graph



Suspected List

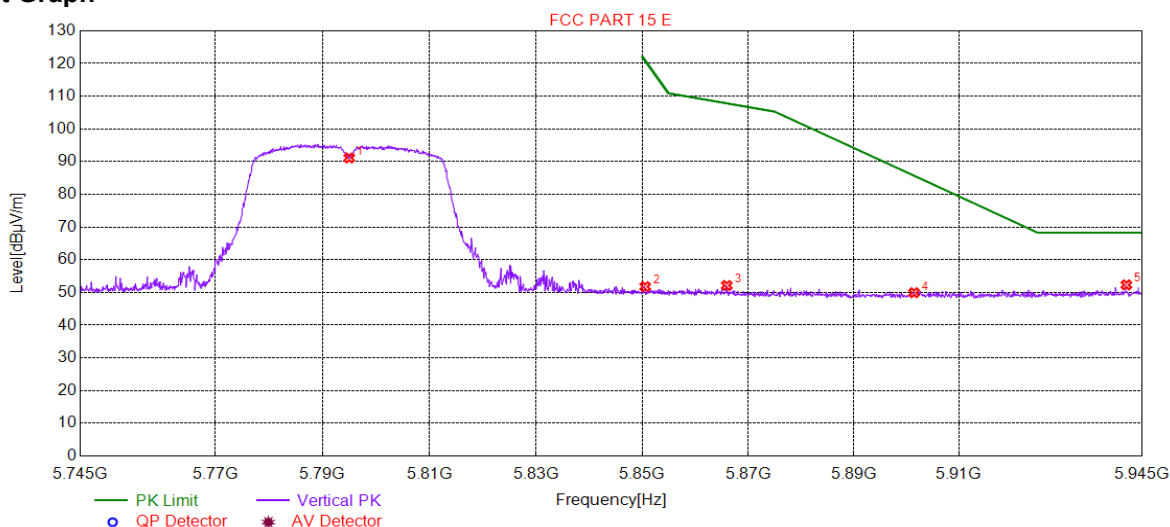
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	97.45	17.18	0.00	-97.45	150	284	Horizontal
2	5851.95	53.82	17.25	117.85	64.03	150	101	Horizontal
3	5857.65	53.60	17.24	110.16	56.56	150	284	Horizontal
4	5899.17	50.90	17.11	87.41	36.51	150	96	Horizontal
5	5941.89	50.56	17.76	68.30	17.74	150	335	Horizontal

Final Data List



4.10.1.40 802.11AC40_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	5795.00	91.14	17.18	0.00	-91.14	150	128	Vertical
2	5850.55	51.78	17.26	121.04	69.26	150	57	Vertical
3	5865.96	52.13	17.21	107.83	55.70	150	71	Vertical
4	5901.47	49.92	17.13	85.71	35.79	150	104	Vertical
5	5941.99	52.33	17.76	68.30	15.97	150	71	Vertical

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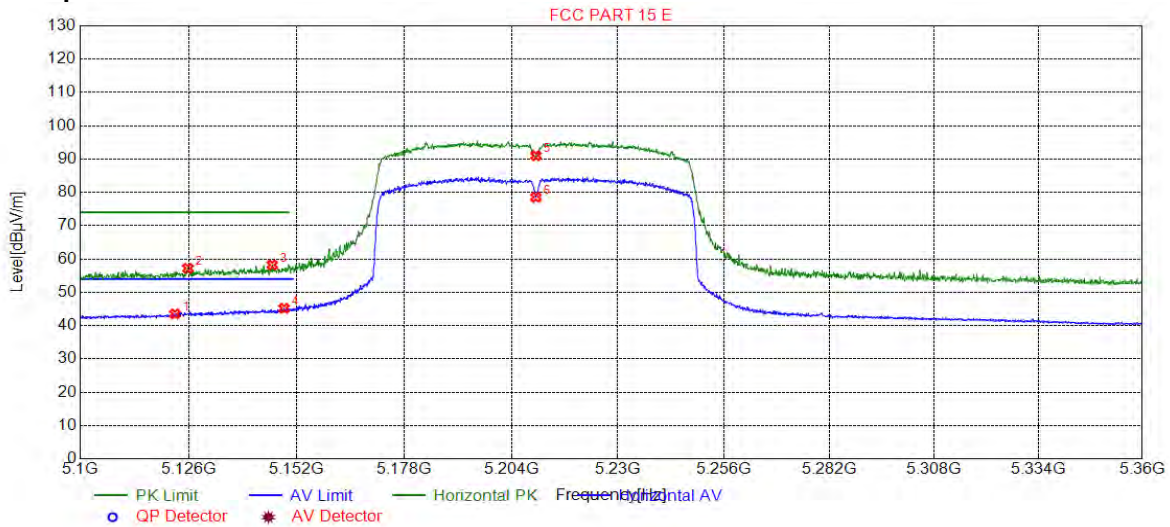
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4.10.1.41 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.63	43.53	15.28	54.00	10.47	150	338	Horizontal
2	5125.75	57.22	15.31	74.00	16.78	150	324	Horizontal
3	5146.04	58.26	15.49	74.00	15.74	150	331	Horizontal
4	5148.90	45.21	15.51	54.00	8.79	150	338	Horizontal
5	5210.00	91.03	15.56	0.00	-91.03	150	297	Horizontal
6	5210.00	78.54	15.56	0.00	-78.54	150	317	Horizontal

Final Data List



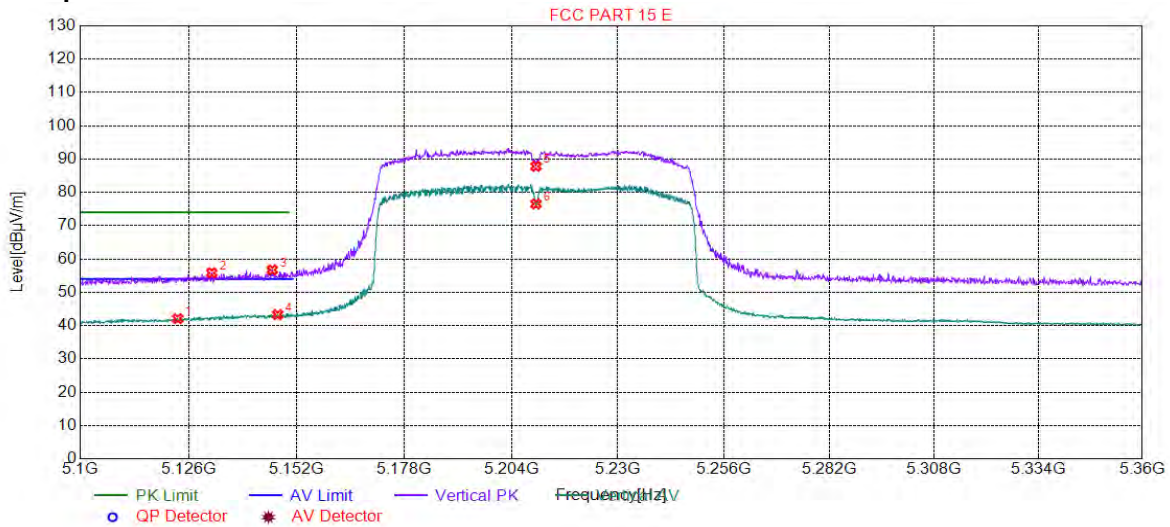
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4.10.1.42 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5123.28	42.09	15.29	54.00	11.91	150	145	Vertical
2	5131.47	55.89	15.36	74.00	18.11	150	145	Vertical
3	5146.04	56.75	15.49	74.00	17.25	150	152	Vertical
4	5147.34	43.32	15.50	54.00	10.68	150	138	Vertical
5	5210.00	87.81	15.56	0.00	-87.81	150	97	Vertical
6	5210.00	76.55	15.56	0.00	-76.55	150	84	Vertical

Final Data List



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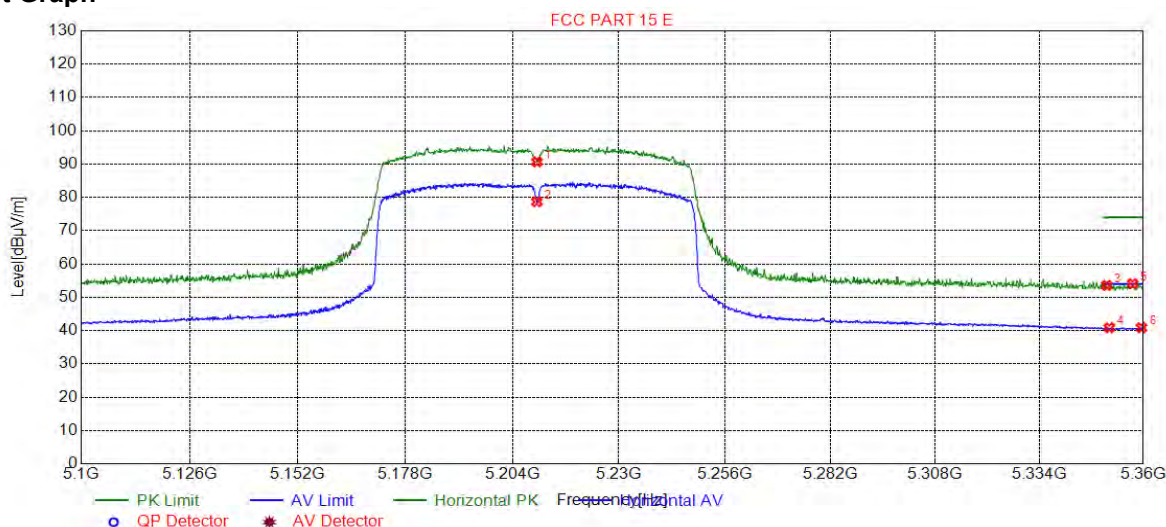
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4.10.1.43 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	90.66	15.56	0.00	-90.66	150	303	Horizontal
2	5210.00	78.71	15.56	0.00	-78.71	150	338	Horizontal
3	5350.89	53.60	15.95	74.00	20.40	150	72	Horizontal
4	5351.54	40.88	15.95	54.00	13.12	150	141	Horizontal
5	5357.39	54.13	15.99	74.00	19.87	150	65	Horizontal
6	5359.60	40.90	16.00	54.00	13.10	150	296	Horizontal

Final Data List

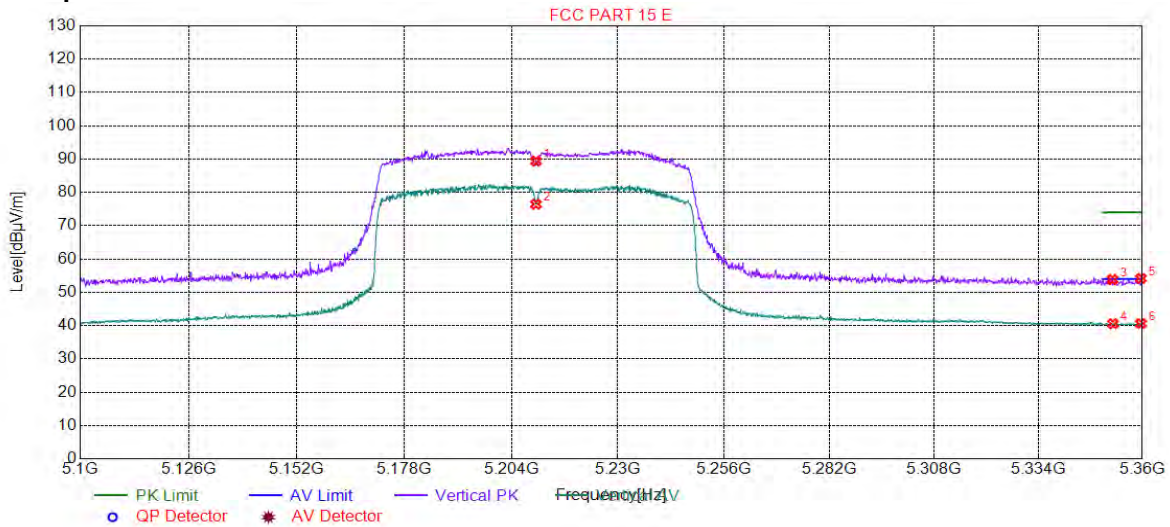


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4.10.1.44 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	89.39	15.56	0.00	-89.39	150	91	Vertical
2	5210.00	76.46	15.56	0.00	-76.46	150	153	Vertical
3	5352.58	53.86	15.96	74.00	20.14	150	84	Vertical
4	5352.71	40.60	15.96	54.00	13.40	150	77	Vertical
5	5359.73	54.19	16.00	74.00	19.81	150	104	Vertical
6	5359.73	40.65	16.00	54.00	13.35	150	77	Vertical

Final Data List



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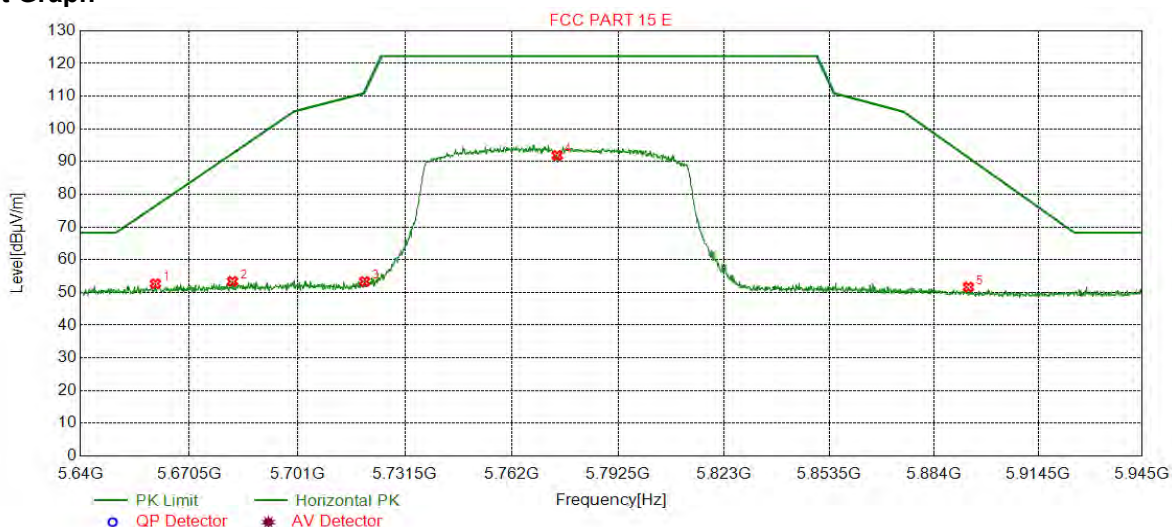
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4.10.1.45 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5661.05	52.68	16.59	76.48	23.80	150	287	Horizontal
2	5682.72	53.39	16.71	92.51	39.12	150	116	Horizontal
3	5720.10	53.37	16.93	111.13	57.76	150	312	Horizontal
4	5775.00	91.90	17.16	122.30	30.40	150	278	Horizontal
5	5894.03	51.66	17.13	91.21	39.55	150	102	Horizontal

Final Data List



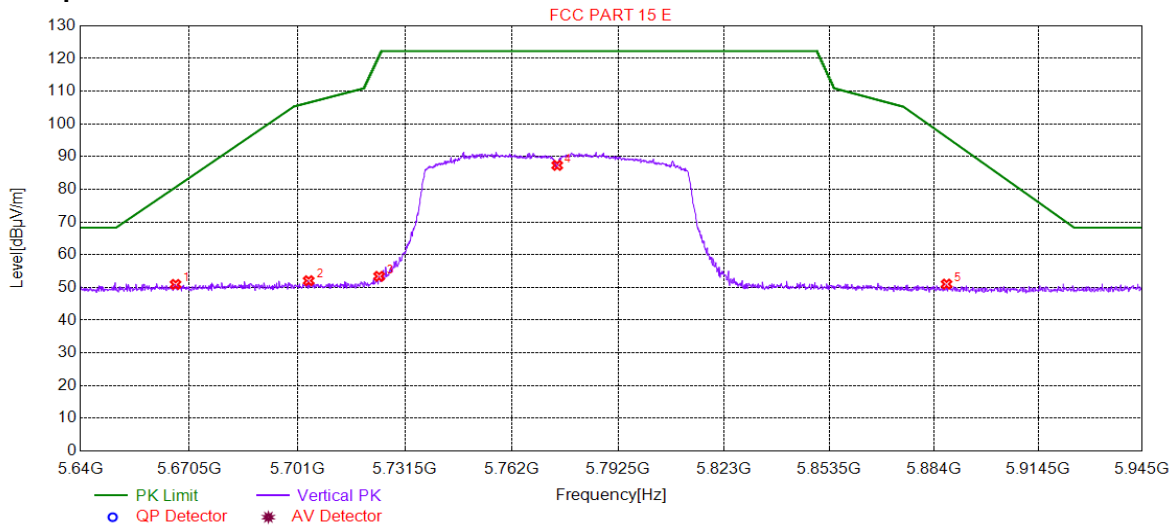
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4.10.1.46 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5666.70	50.94	16.62	80.66	29.72	150	52	Vertical
2	5704.23	52.07	16.83	106.49	54.42	150	279	Vertical
3	5724.22	53.41	16.96	120.53	67.12	150	135	Vertical
4	5775.00	87.34	17.16	122.30	34.96	150	160	Vertical
5	5887.63	51.04	17.15	95.95	44.91	150	273	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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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.000556	5825.008391
V max(V)	5180.000863	5825.014320
V min(V)	5180.008703	5825.024230
Max. Deviation Frequency	0.008703	0.024230
Max. Frequency Error (ppm)	1.680152	4.159690

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.003226	5825.009082
5	5180.009798	5825.013062
15	5180.010348	5825.020630
25	5180.017504	5825.023766
35	5180.027417	5825.031459
45	5180.033047	5825.031692
50	5180.035878	5825.039141
Max. Deviation Frequency	0.035878	0.039141
Max. Frequency Error (ppm)	6.926277	6.719423



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%





6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/3/2	2021/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2020/2/11	2021/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2020/2/11	2021/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2020/7/14	2021/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
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-CP-AR	W027-03	2020/10/27 2019/10/27	2021/10/27 2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A





RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020/8/5	2023/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020/7/14	2021/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2020/3/2	2021/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2020/10/17	2023/10/16
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2020/7/14	2021/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2020/7/14	2021/7/14
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2020/10/20	2021/10/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020/3/2	2021/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020/6/12	2021/6/11





7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/90032.

The End

