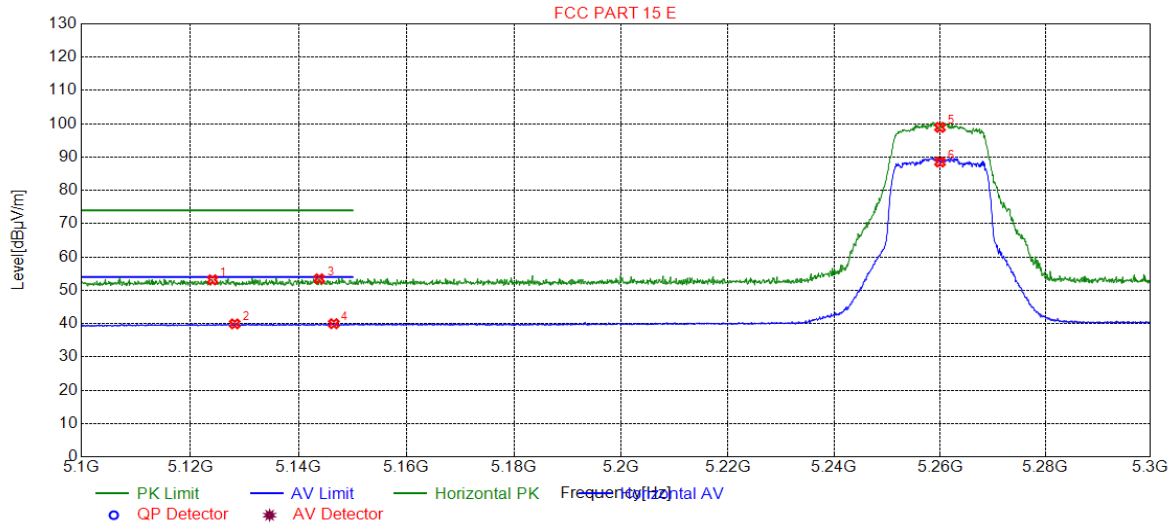


4.10.1.59 802.11AC20_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5124.11	53.18	15.30	74.00	20.82	177	70	Horizontal
2	5128.21	39.94	15.33	54.00	14.06	215	180	Horizontal
3	5143.82	53.47	15.47	74.00	20.53	203	56	Horizontal
4	5146.52	40.00	15.49	54.00	14.00	209	339	Horizontal
5	5260.00	98.92	15.51	0.00	-98.92	193	202	Horizontal
6	5260.00	88.52	15.51	0.00	-88.52	103	153	Horizontal

Final Data List

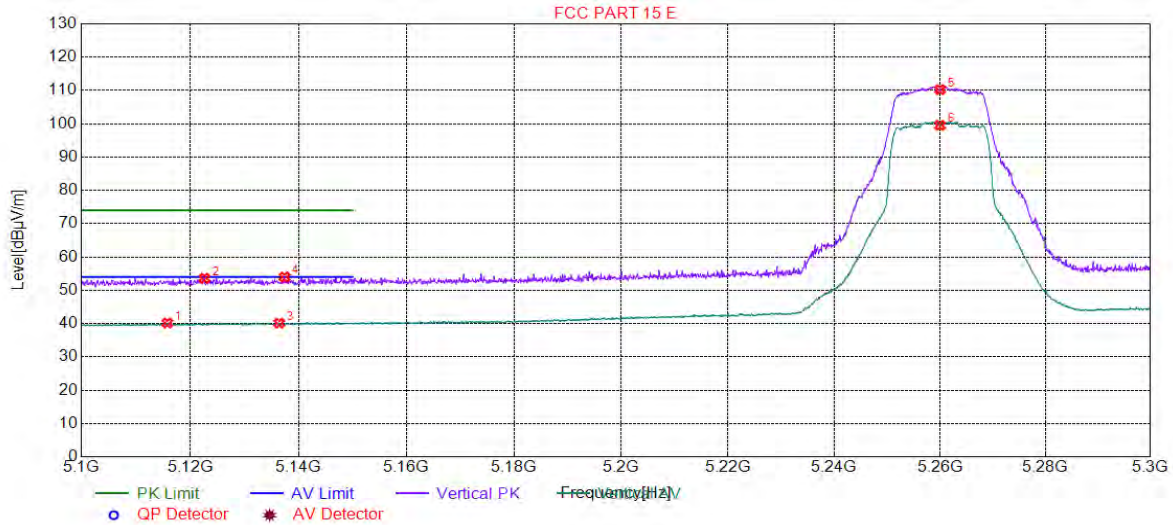


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4.10.1.60 802.11AC20_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5115.80	40.20	15.23	54.00	13.80	243	7	Vertical
2	5122.61	53.62	15.28	74.00	20.38	214	187	Vertical
3	5136.41	40.15	15.40	54.00	13.85	172	344	Vertical
4	5137.41	54.00	15.41	74.00	20.00	158	344	Vertical
5	5260.00	110.26	15.51	0.00	-110.26	285	331	Vertical
6	5260.00	99.54	15.51	0.00	-99.54	202	338	Vertical

Final Data List

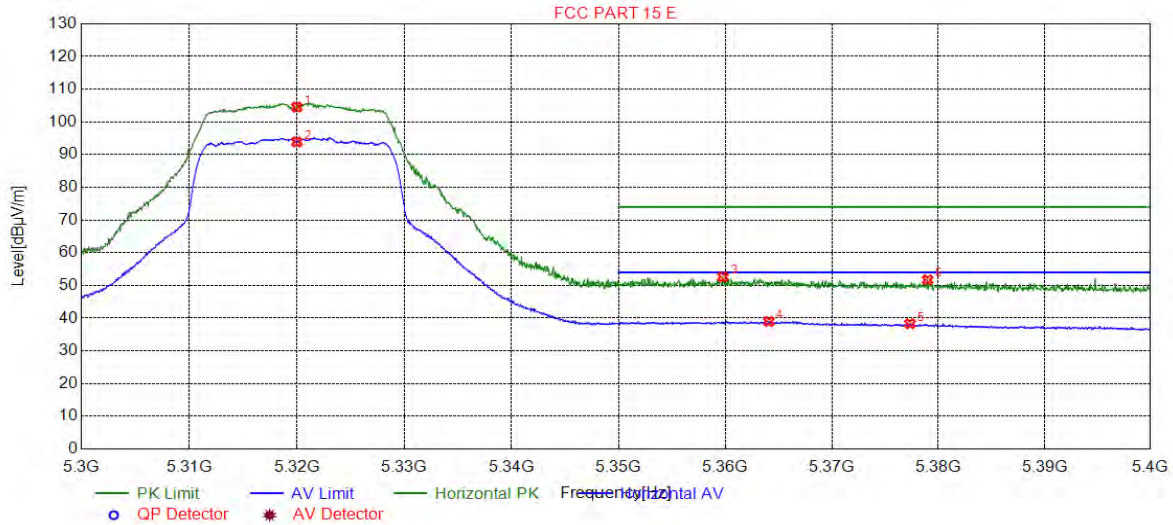


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4.10.1.61 802.11AC20_Channel 64

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	104.56	15.80	0.00	-104.56	216	344	Horizontal
2	5320.00	93.92	15.80	0.00	-93.92	203	344	Horizontal
3	5359.77	52.62	16.00	74.00	21.38	102	357	Horizontal
4	5364.08	38.99	16.03	54.00	15.01	186	360	Horizontal
5	5377.33	38.31	16.11	54.00	15.69	223	16	Horizontal
6	5378.98	51.74	16.12	74.00	22.26	160	16	Horizontal

Final Data List

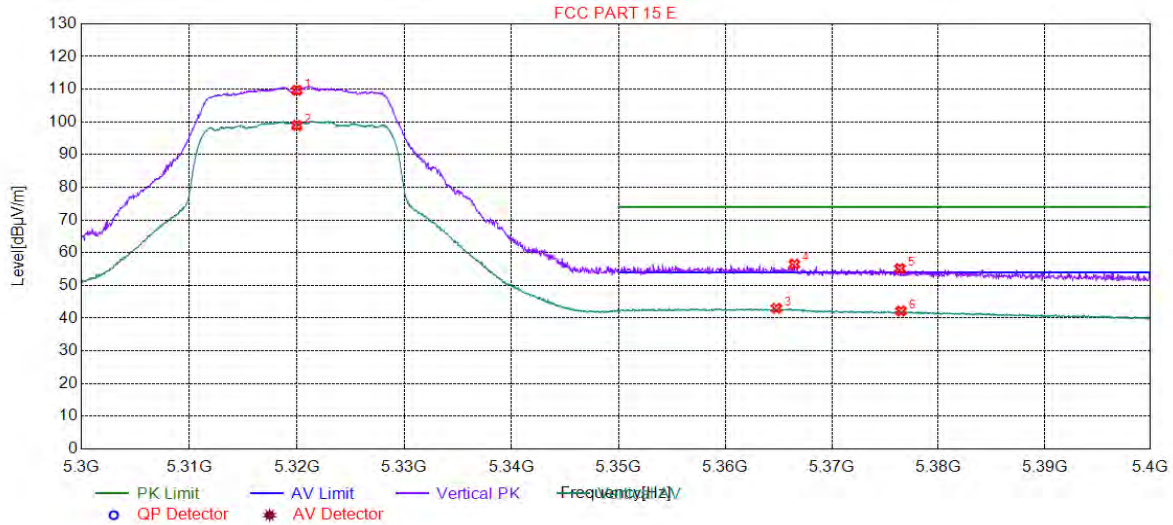


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4.10.1.62 802.11AC20_Channel 64

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	109.67	15.80	0.00	-109.67	258	345	Vertical
2	5320.00	98.94	15.80	0.00	-98.94	194	345	Vertical
3	5364.78	43.02	16.03	54.00	10.98	225	0	Vertical
4	5366.48	56.53	16.04	74.00	17.47	195	345	Vertical
5	5376.38	55.19	16.10	74.00	18.81	263	324	Vertical
6	5376.48	42.19	16.10	54.00	11.81	150	331	Vertical

Final Data List



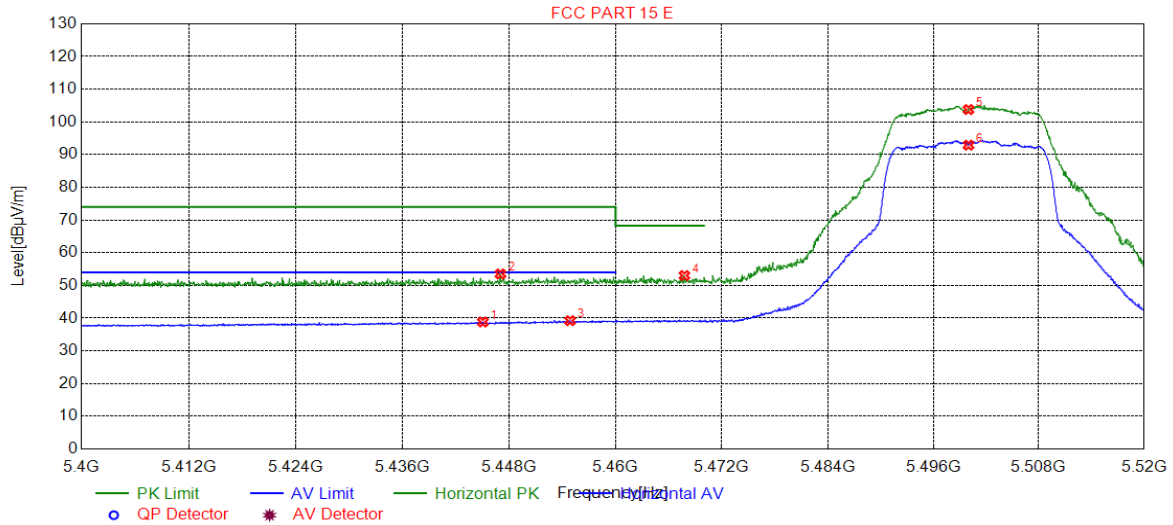
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4.10.1.63 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5445.02	38.84	16.25	54.00	15.16	105	14	Horizontal
2	5447.00	53.52	16.25	74.00	20.48	143	19	Horizontal
3	5454.86	39.24	16.25	54.00	14.76	182	353	Horizontal
4	5467.77	53.04	16.25	68.30	15.26	183	360	Horizontal
5	5500.00	103.79	16.25	0.00	-103.79	178	14	Horizontal
6	5500.00	92.91	16.25	0.00	-92.91	181	358	Horizontal

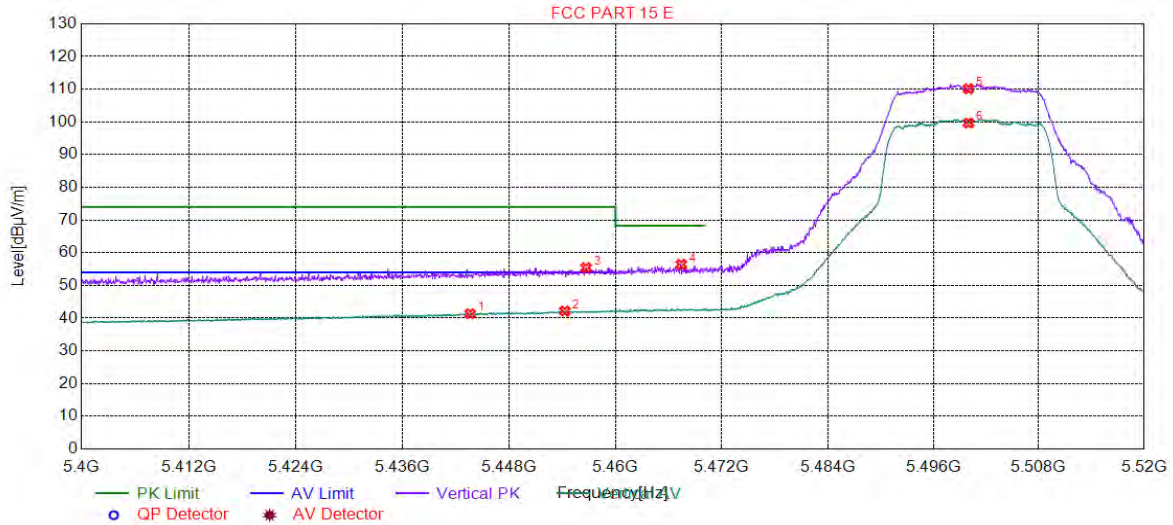
Final Data List



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4.10.1.64 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5443.58	41.35	16.25	54.00	12.65	234	346	Vertical
2	5454.26	42.18	16.25	54.00	11.82	155	346	Vertical
3	5456.66	55.42	16.25	74.00	18.58	237	346	Vertical
4	5467.41	56.45	16.25	68.30	11.85	183	341	Vertical
5	5500.00	110.14	16.25	0.00	-110.14	294	346	Vertical
6	5500.00	99.68	16.25	0.00	-99.68	216	341	Vertical

Final Data List



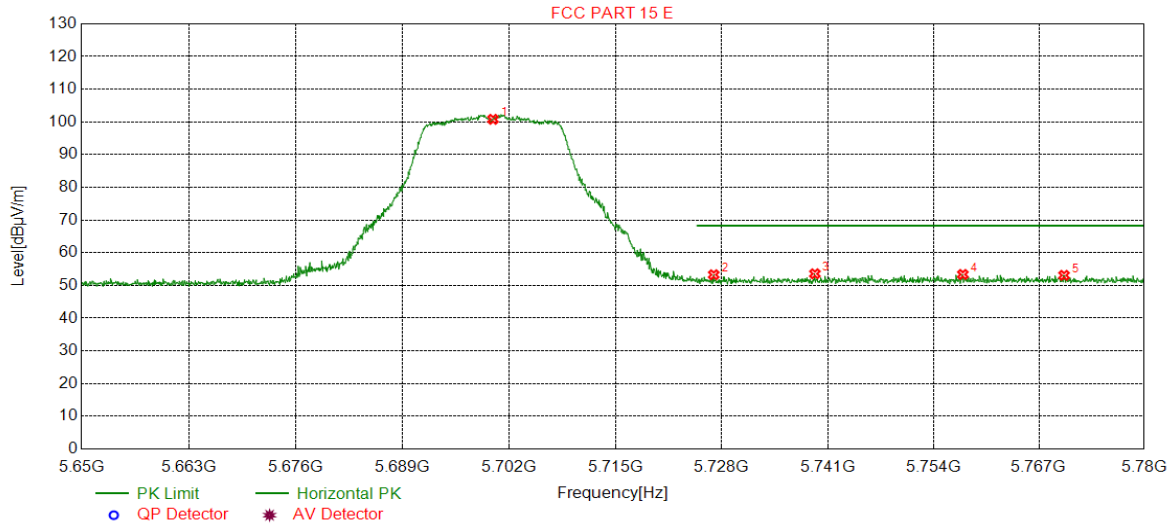
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4.10.1.65 802.11AC20_Channel 140

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	100.81	16.80	0.00	-100.81	172	167	Horizontal
2	5726.99	53.29	16.97	68.30	15.01	165	167	Horizontal
3	5739.41	53.58	17.05	68.30	14.72	215	167	Horizontal
4	5757.62	53.38	17.13	68.30	14.92	117	162	Horizontal
5	5770.11	53.11	17.15	68.30	15.19	214	158	Horizontal

Final Data List

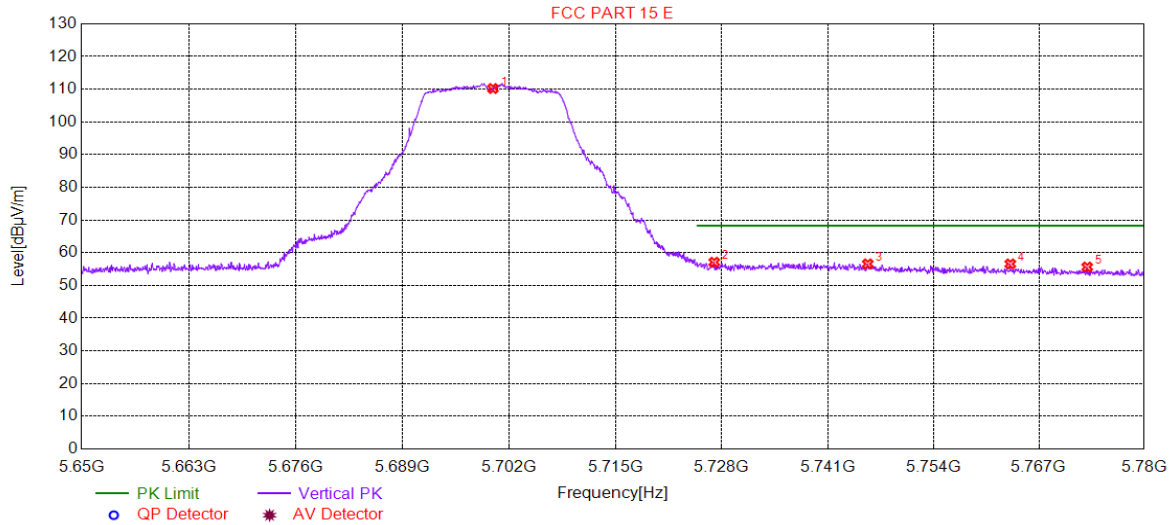


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4.10.1.66 802.11AC20_Channel 140

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	110.23	16.80	0.00	-110.23	253	344	Vertical
2	5727.06	57.12	16.97	68.30	11.18	155	3	Vertical
3	5745.92	56.60	17.09	68.30	11.70	171	327	Vertical
4	5763.48	56.59	17.14	68.30	11.71	281	344	Vertical
5	5772.97	55.64	17.15	68.30	12.66	231	322	Vertical

Final Data List

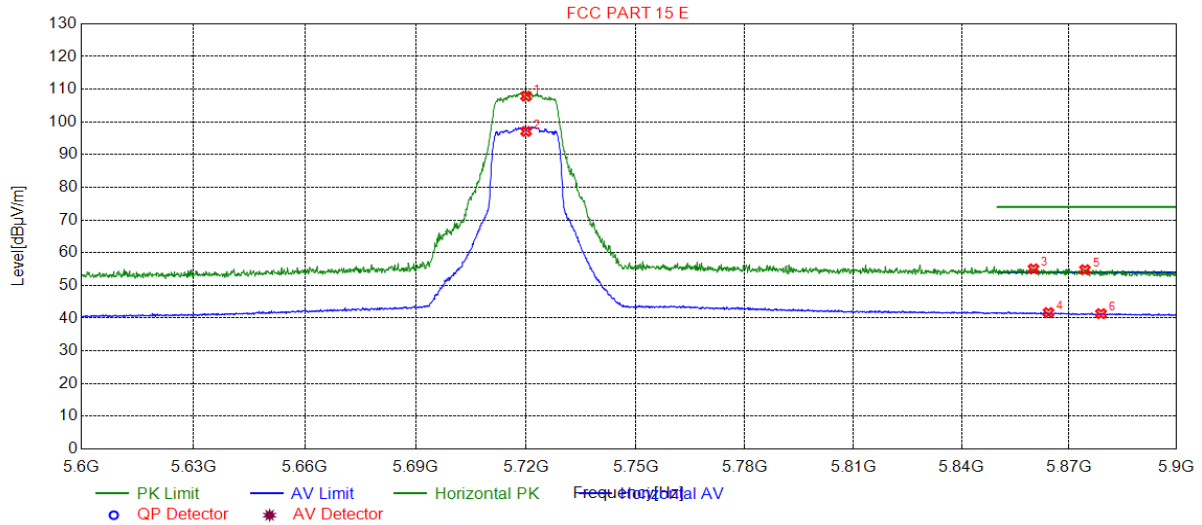


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4.10.1.67 802.11AC20_Channel 144

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.00	107.88	16.93	0.00	-107.88	161	328	Horizontal
2	5720.00	97.11	16.93	0.00	-97.11	104	328	Horizontal
3	5860.08	55.10	17.23	74.00	18.90	131	0	Horizontal
4	5864.28	41.73	17.22	54.00	12.27	154	301	Horizontal
5	5874.48	54.83	17.19	74.00	19.17	157	301	Horizontal
6	5878.98	41.39	17.17	54.00	12.61	228	316	Horizontal

Final Data List



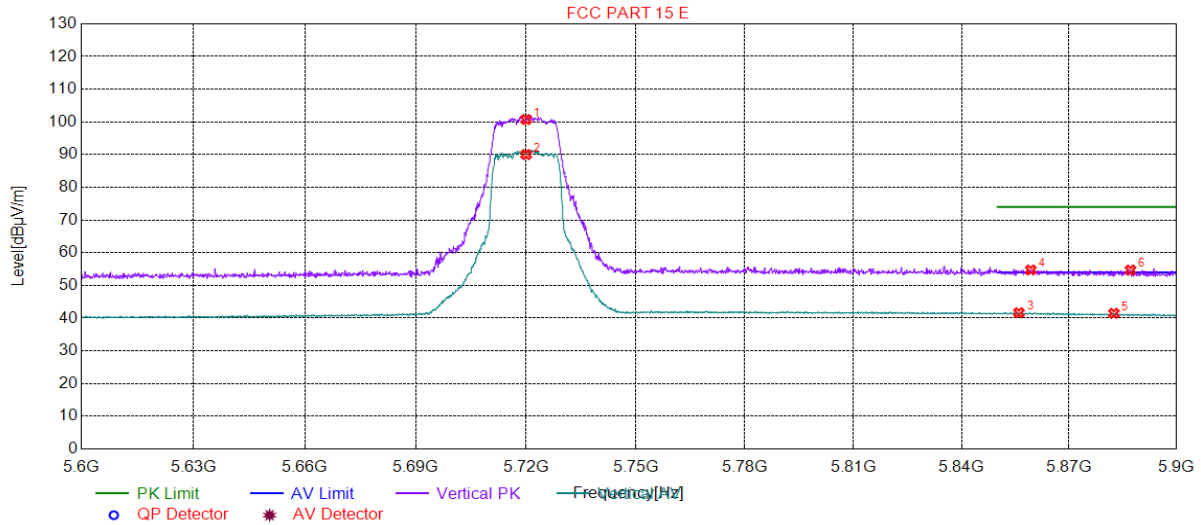
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4.10.1.68 802.11AC20_Channel 144

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.00	100.73	16.93	0.00	-100.73	289	197	Vertical
2	5720.00	90.04	16.93	0.00	-90.04	284	197	Vertical
3	5856.02	41.69	17.24	54.00	12.31	256	36	Vertical
4	5859.32	54.75	17.23	74.00	19.25	205	16	Vertical
5	5882.59	41.50	17.16	54.00	12.50	267	284	Vertical
6	5887.24	54.73	17.15	74.00	19.27	205	29	Vertical

Final Data List

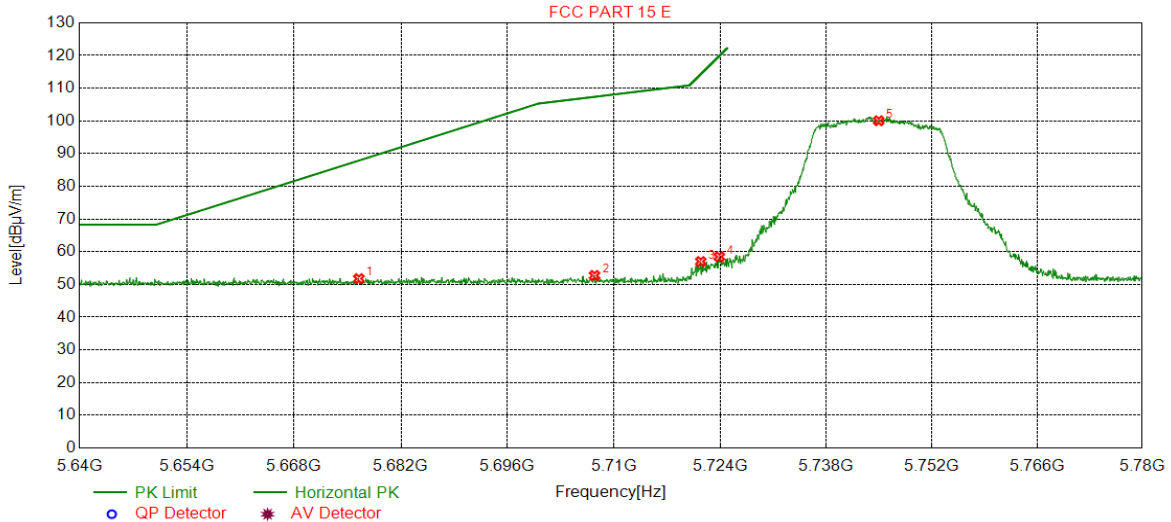


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4.10.1.69 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5676.48	51.78	16.67	87.90	36.12	179	314	Horizontal
2	5707.44	52.75	16.85	107.38	54.63	218	74	Horizontal
3	5721.45	57.01	16.94	114.21	57.20	121	142	Horizontal
4	5723.90	58.48	16.95	119.80	61.32	126	142	Horizontal
5	5745.00	100.06	17.09	0.00	-100.06	219	142	Horizontal

Final Data List

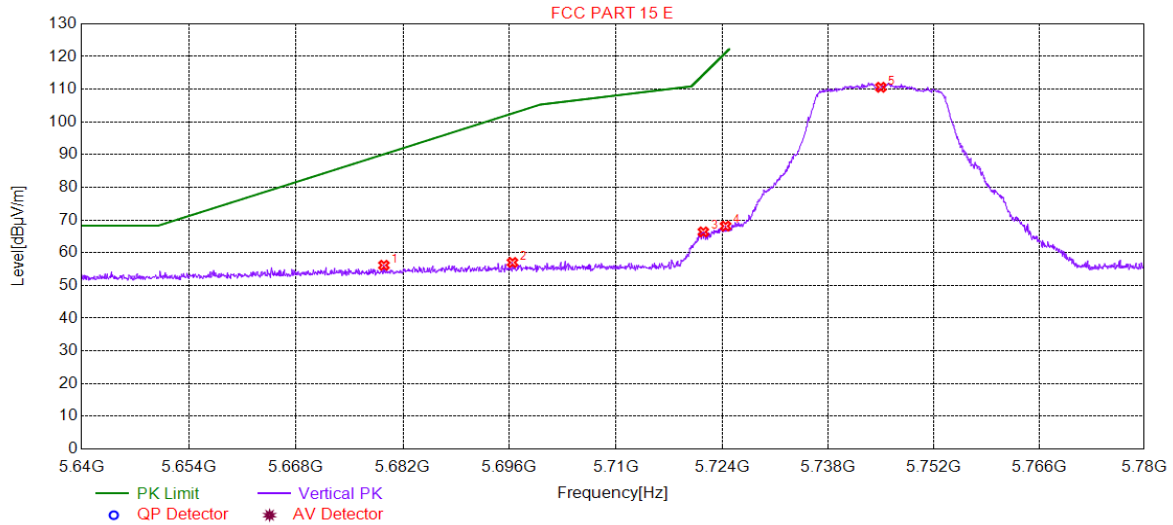


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4.10.1.70 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5679.49	56.18	16.69	90.13	33.95	208	280	Vertical
2	5696.37	57.03	16.78	102.62	45.59	172	289	Vertical
3	5721.52	66.38	16.94	114.37	47.99	264	1	Vertical
4	5724.46	68.16	16.96	121.07	52.91	248	280	Vertical
5	5745.00	110.60	17.09	0.00	-110.60	175	321	Vertical

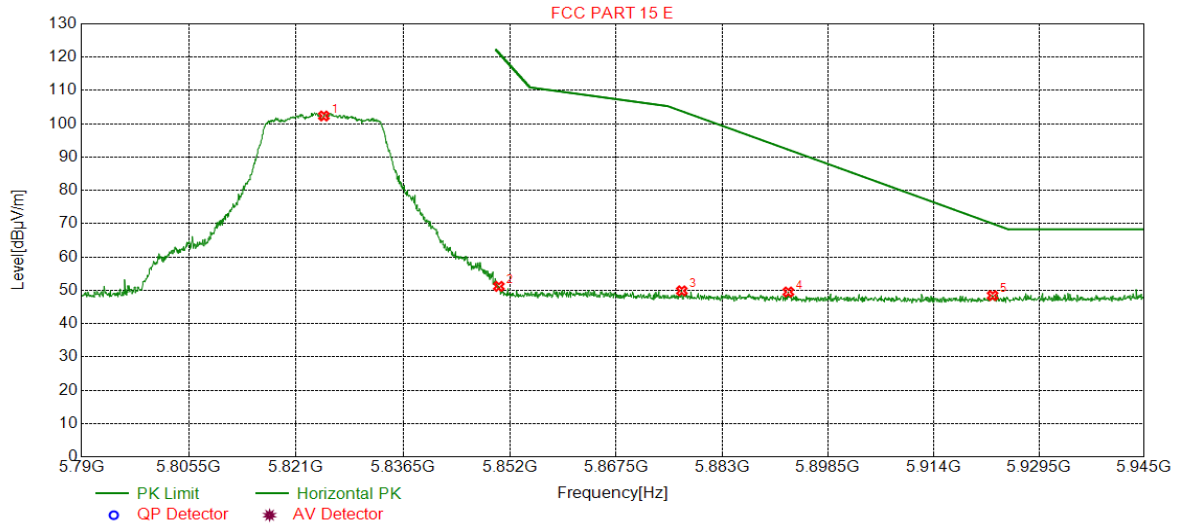
Final Data List



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4.10.1.71 802.11AC20_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	102.34	17.23	0.00	-102.34	206	148	Horizontal
2	5850.40	51.20	17.26	121.38	70.18	211	148	Horizontal
3	5877.07	49.86	17.18	103.76	53.90	166	148	Horizontal
4	5892.66	49.52	17.13	92.23	42.71	176	70	Horizontal
5	5922.66	48.44	17.46	70.03	21.59	167	189	Horizontal

Final Data List

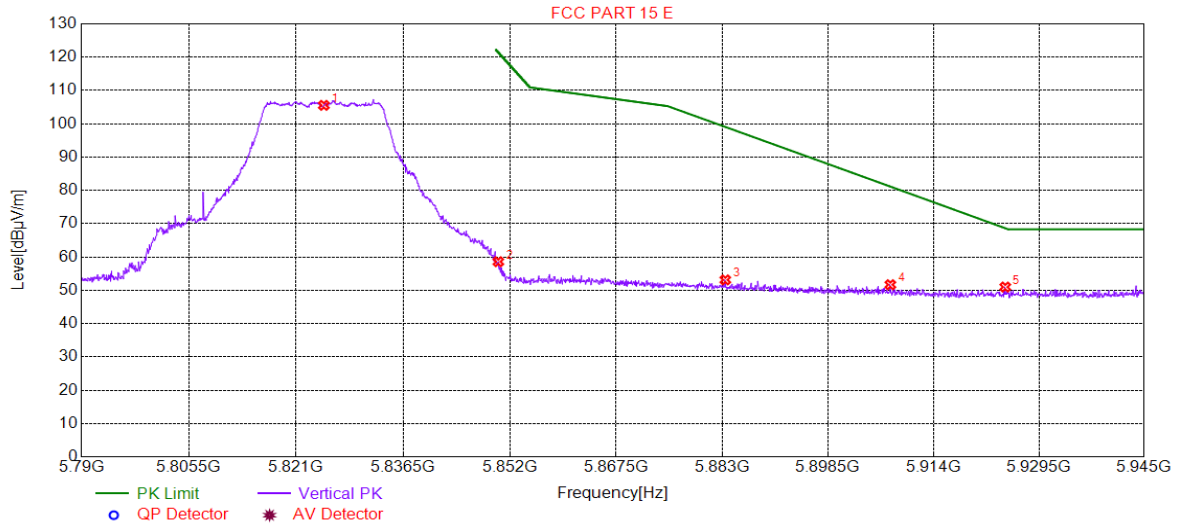


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4.10.1.72 802.11AC20_Channel 165

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	105.54	17.23	0.00	-105.54	297	304	Vertical
2	5850.32	58.60	17.26	121.56	62.96	184	340	Vertical
3	5883.43	53.15	17.16	99.06	45.91	170	340	Vertical
4	5907.62	51.70	17.23	81.16	29.46	256	326	Vertical
5	5924.52	51.00	17.49	68.65	17.65	232	40	Vertical

Final Data List

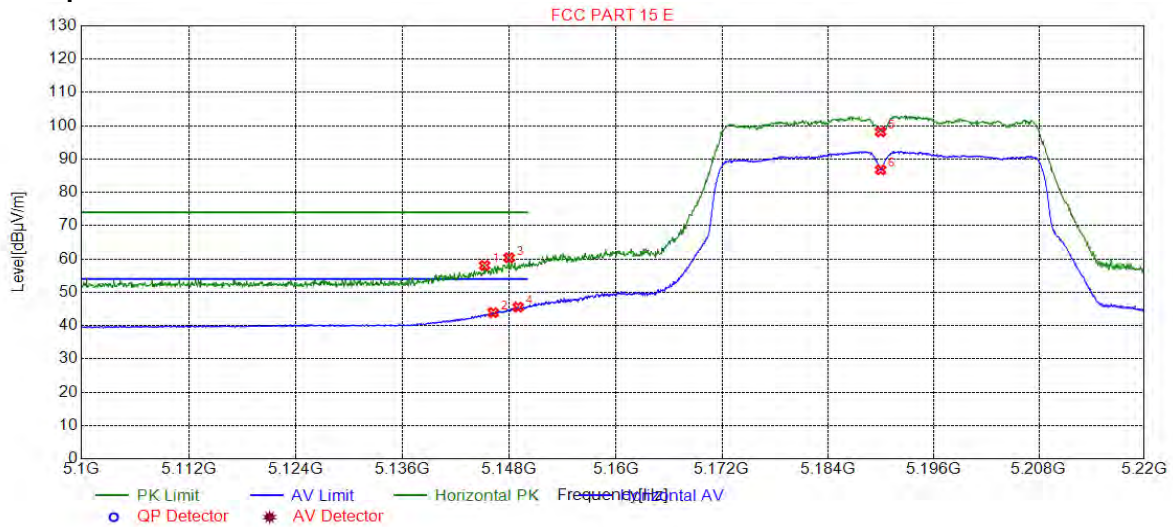


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4.10.1.73 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5145.20	58.07	15.48	74.00	15.93	102	335	Horizontal
2	5146.16	43.92	15.49	54.00	10.08	216	341	Horizontal
3	5147.96	60.36	15.50	74.00	13.64	229	319	Horizontal
4	5148.98	45.57	15.51	54.00	8.43	157	330	Horizontal
5	5190.00	98.19	15.58	0.00	-98.19	105	330	Horizontal
6	5190.00	86.75	15.58	0.00	-86.75	108	335	Horizontal

Final Data List

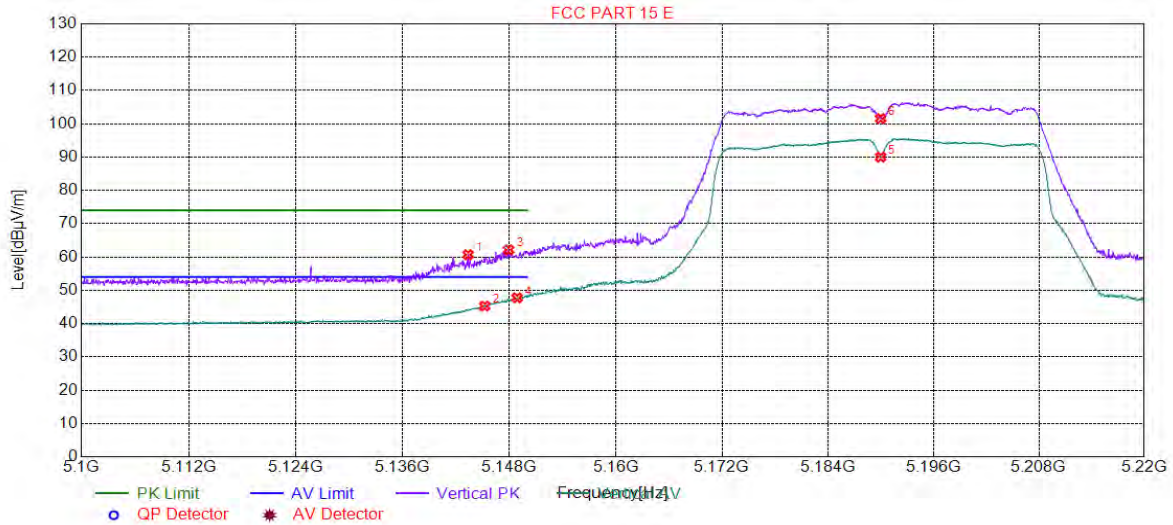


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4.10.1.74 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5143.34	60.71	15.46	74.00	13.29	276	0	Vertical
2	5145.20	45.29	15.48	54.00	8.71	161	7	Vertical
3	5147.90	62.16	15.50	74.00	11.84	284	7	Vertical
4	5148.86	47.77	15.51	54.00	6.23	272	346	Vertical
5	5190.00	90.01	15.58	0.00	-90.01	182	18	Vertical
6	5190.00	101.56	15.58	0.00	-101.56	293	346	Vertical

Final Data List

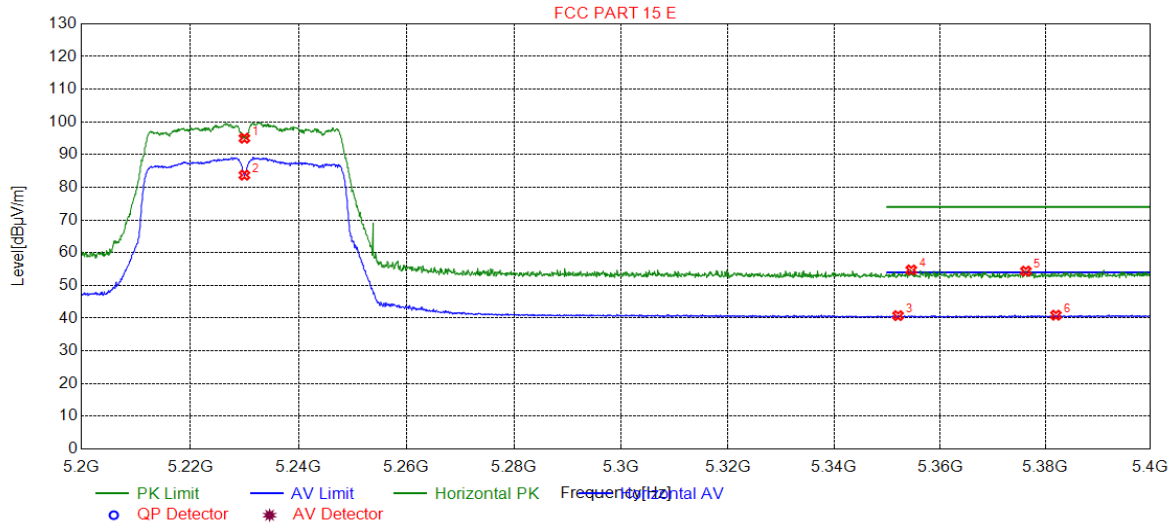


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4.10.1.75 802.11AC40_Channel 46

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	95.02	15.51	0.00	-95.02	110	349	Horizontal
2	5230.00	83.73	15.51	0.00	-83.73	238	349	Horizontal
3	5352.07	40.79	15.95	54.00	13.21	123	356	Horizontal
4	5354.57	54.76	15.97	74.00	19.24	226	220	Horizontal
5	5376.28	54.40	16.10	74.00	19.60	139	343	Horizontal
6	5381.99	40.92	16.14	54.00	13.08	183	152	Horizontal

Final Data List

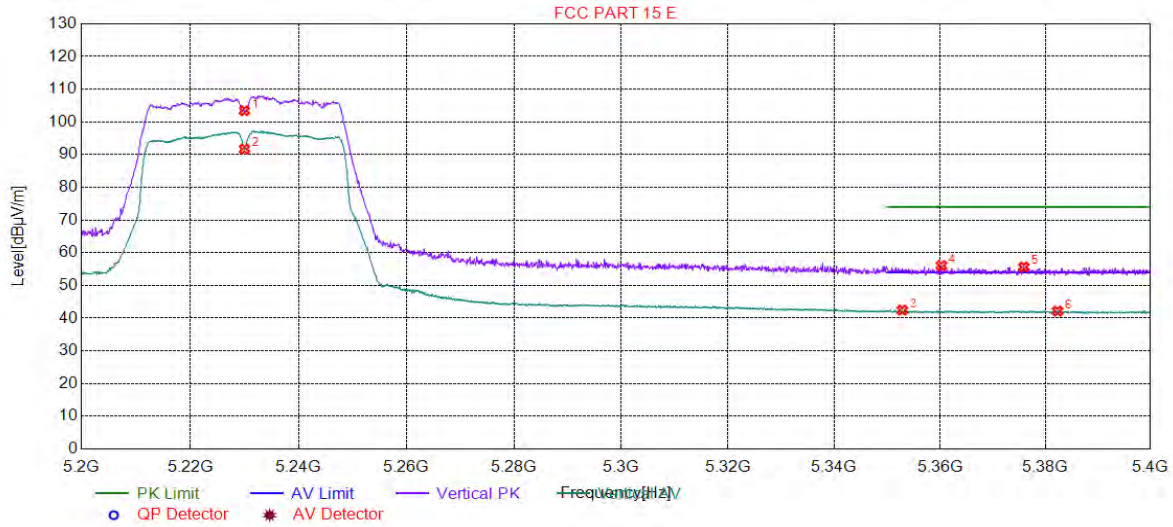


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4.10.1.76 802.11AC40_Channel 46

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	103.45	15.51	0.00	-103.45	240	345	Vertical
2	5230.00	91.70	15.51	0.00	-91.70	260	345	Vertical
3	5352.87	42.47	15.96	54.00	11.53	165	345	Vertical
4	5360.28	56.09	16.00	74.00	17.91	259	18	Vertical
5	5375.88	55.67	16.10	74.00	18.33	247	11	Vertical
6	5382.29	42.16	16.14	54.00	11.84	287	337	Vertical

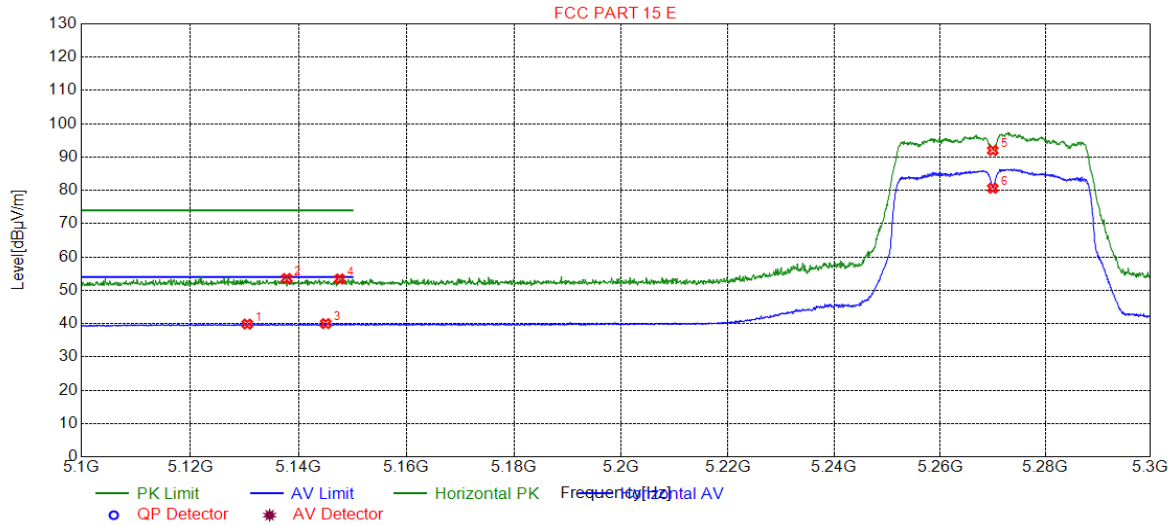
Final Data List



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4.10.1.77 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5130.51	39.89	15.35	54.00	14.11	152	22	Horizontal
2	5137.81	53.59	15.42	74.00	20.41	176	213	Horizontal
3	5145.02	40.02	15.48	54.00	13.98	240	192	Horizontal
4	5147.62	53.43	15.50	74.00	20.57	108	303	Horizontal
5	5270.00	92.01	15.56	0.00	-92.01	167	143	Horizontal
6	5270.00	80.66	15.56	0.00	-80.66	201	157	Horizontal

Final Data List

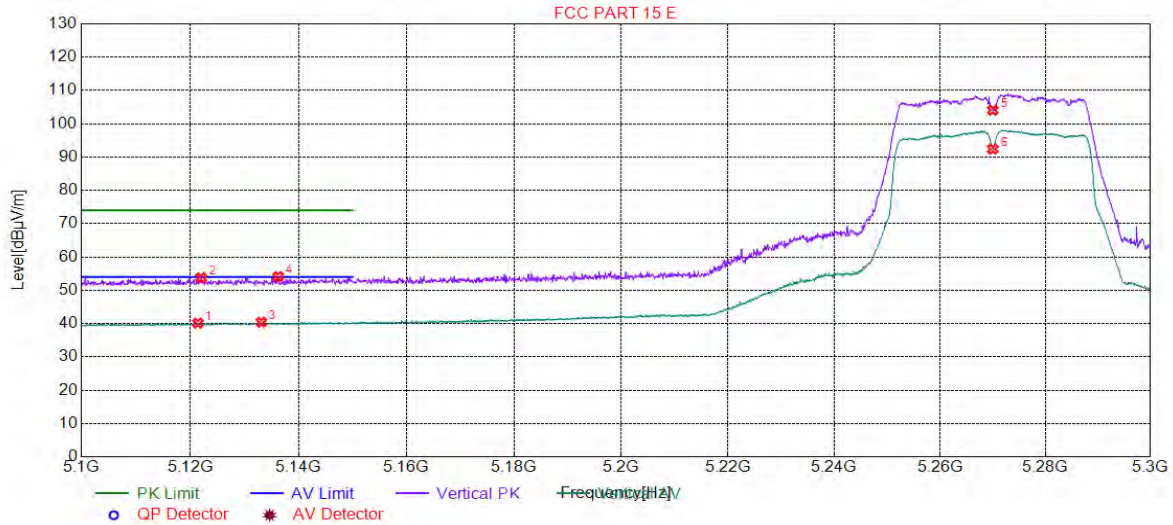


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4.10.1.78 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5121.41	40.19	15.27	54.00	13.81	191	344	Vertical
2	5122.01	53.77	15.28	74.00	20.23	179	208	Vertical
3	5133.11	40.45	15.37	54.00	13.55	168	269	Vertical
4	5136.21	54.14	15.40	74.00	19.86	212	2	Vertical
5	5270.00	104.07	15.56	0.00	-104.07	281	0	Vertical
6	5270.00	92.41	15.56	0.00	-92.41	244	344	Vertical

Final Data List

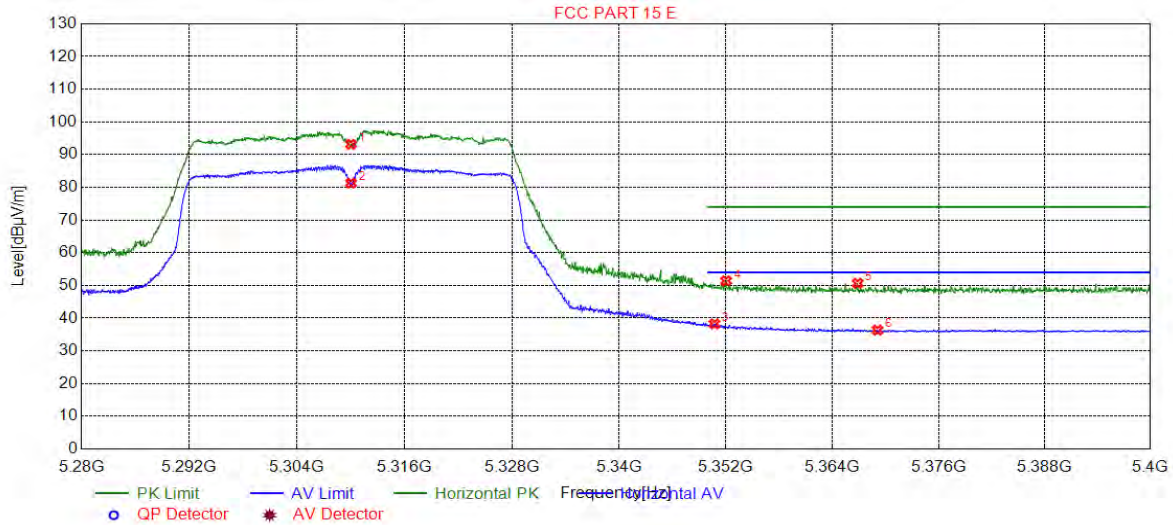


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4.10.1.79 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	93.18	15.75	0.00	-93.18	116	90	Horizontal
2	5310.00	81.29	15.75	0.00	-81.29	157	90	Horizontal
3	5350.71	38.26	15.94	54.00	15.74	202	90	Horizontal
4	5352.03	51.41	15.95	74.00	22.59	191	104	Horizontal
5	5366.86	50.66	16.04	74.00	23.34	190	242	Horizontal
6	5369.08	36.35	16.06	54.00	17.65	169	97	Horizontal

Final Data List

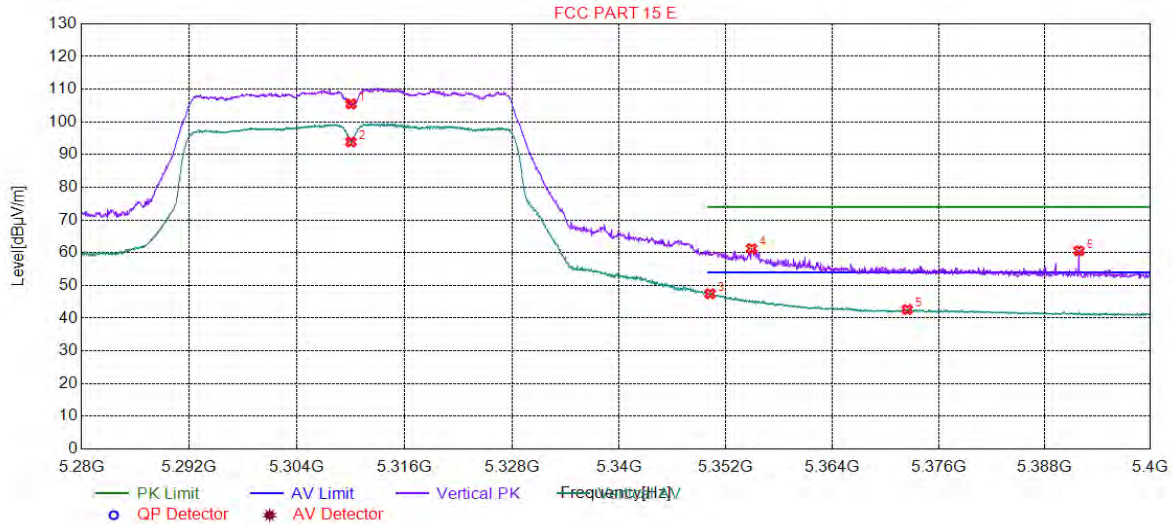


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4.10.1.80 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	105.49	15.75	0.00	-105.49	241	344	Vertical
2	5310.00	93.89	15.75	0.00	-93.89	190	344	Vertical
3	5350.23	47.50	15.94	54.00	6.50	227	344	Vertical
4	5354.91	61.28	15.97	74.00	12.72	162	1	Vertical
5	5372.44	42.65	16.08	54.00	11.35	251	344	Vertical
6	5391.89	60.63	16.20	74.00	13.37	274	319	Vertical

Final Data List

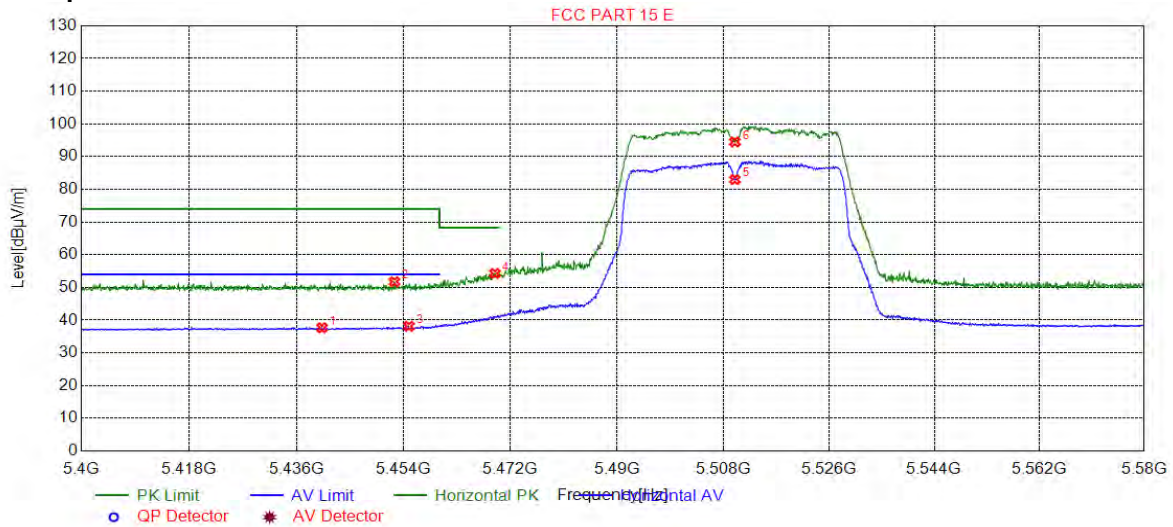


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4.10.1.81 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5440.25	37.68	16.25	54.00	16.32	135	140	Horizontal
2	5452.40	51.76	16.25	74.00	22.24	189	70	Horizontal
3	5454.83	38.14	16.25	54.00	15.86	101	63	Horizontal
4	5469.33	54.32	16.25	68.30	13.98	106	154	Horizontal
5	5510.00	83.00	16.28	0.00	-83.00	199	78	Horizontal
6	5510.00	94.51	16.28	0.00	-94.51	170	85	Horizontal

Final Data List

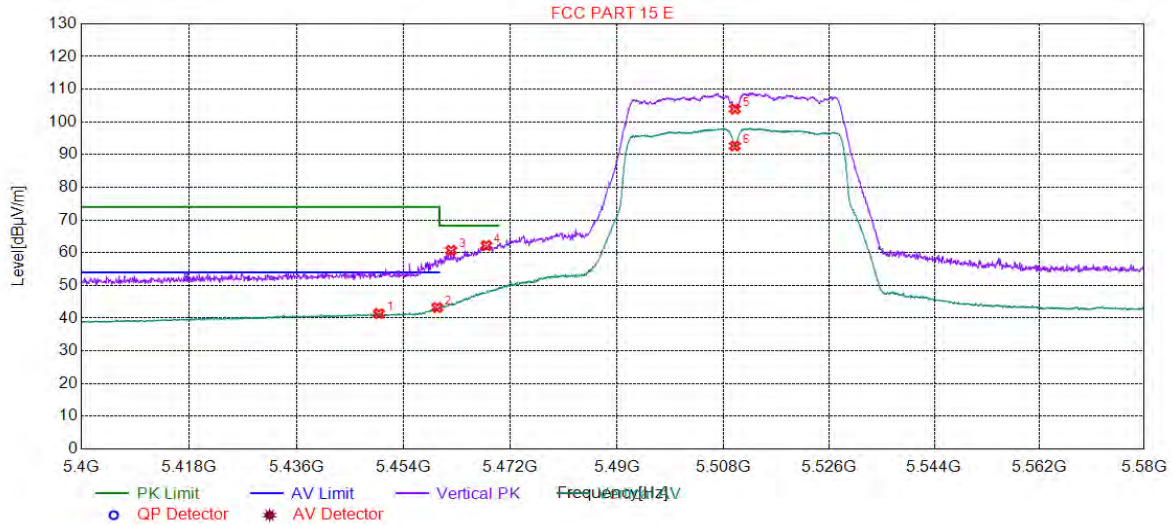


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4.10.1.82 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5449.79	41.39	16.25	54.00	12.61	245	338	Vertical
2	5459.60	43.26	16.25	54.00	10.74	233	338	Vertical
3	5461.95	60.76	16.25	68.30	7.54	191	2	Vertical
4	5467.89	62.25	16.25	68.30	6.05	236	338	Vertical
5	5510.00	103.96	16.28	0.00	-103.96	196	338	Vertical
6	5510.00	92.66	16.28	0.00	-92.66	253	324	Vertical

Final Data List

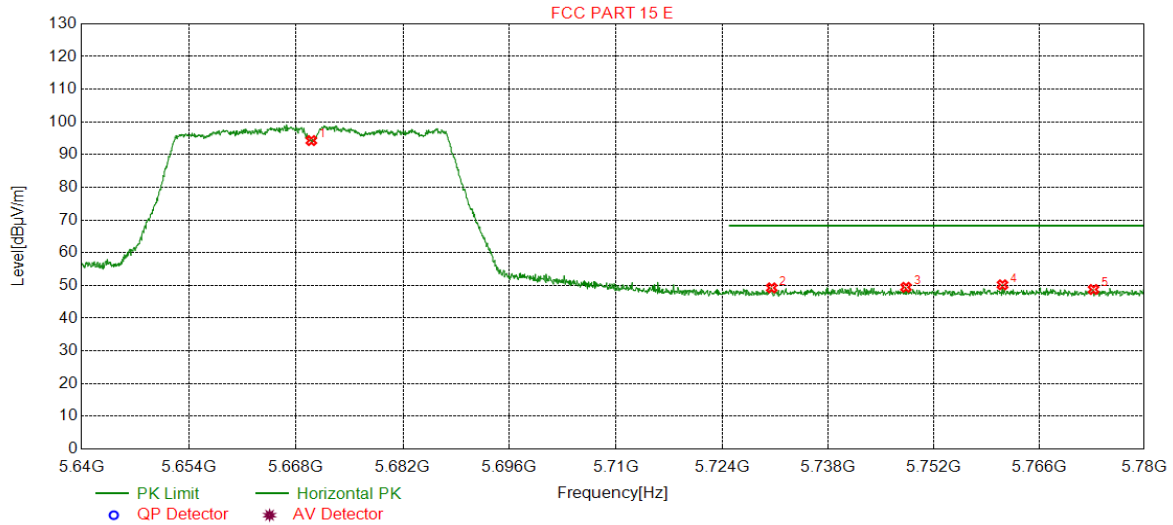


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4.10.1.83 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	94.31	16.64	0.00	-94.31	111	153	Horizontal
2	5730.55	49.27	17.00	68.30	19.03	224	65	Horizontal
3	5748.34	49.45	17.11	68.30	18.85	197	199	Horizontal
4	5761.16	50.20	17.14	68.30	18.10	181	144	Horizontal
5	5773.27	48.78	17.15	68.30	19.52	127	139	Horizontal

Final Data List

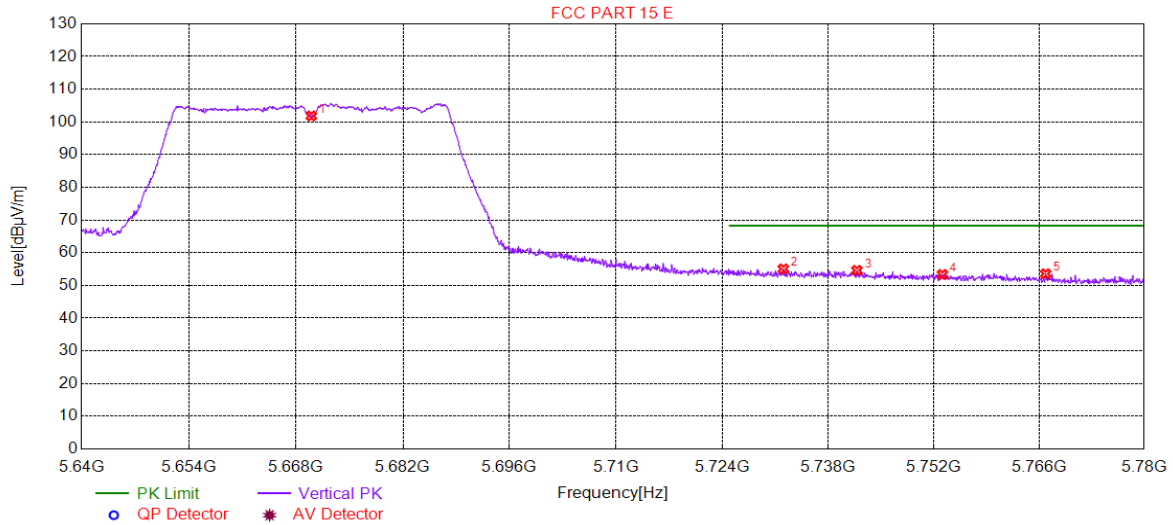


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4.10.1.84 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	101.84	16.64	0.00	-101.84	267	10	Vertical
2	5732.09	55.07	17.01	68.30	13.23	279	322	Vertical
3	5741.83	54.63	17.07	68.30	13.67	245	344	Vertical
4	5753.17	53.37	17.12	68.30	14.93	170	322	Vertical
5	5766.90	53.59	17.14	68.30	14.71	237	344	Vertical

Final Data List

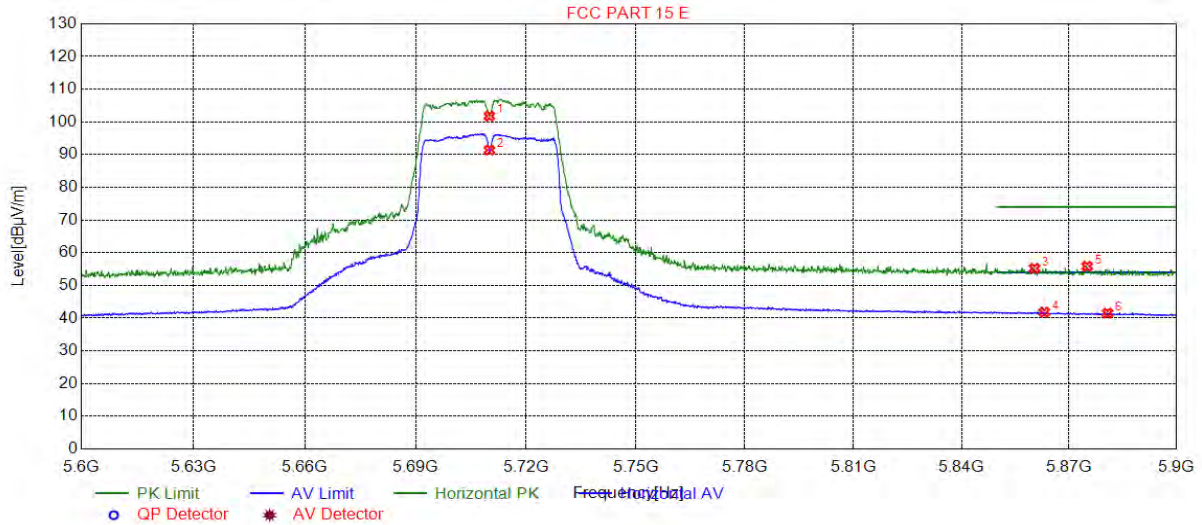


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4.10.1.85 802.11AC40_Channel 142

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5710.00	101.79	16.86	0.00	-101.79	104	304	Horizontal
2	5710.00	91.39	16.86	0.00	-91.39	103	311	Horizontal
3	5860.38	55.24	17.23	74.00	18.76	147	304	Horizontal
4	5863.08	41.82	17.22	54.00	12.18	226	325	Horizontal
5	5875.08	55.87	17.18	74.00	18.13	144	8	Horizontal
6	5880.79	41.54	17.17	54.00	12.46	230	318	Horizontal

Final Data List

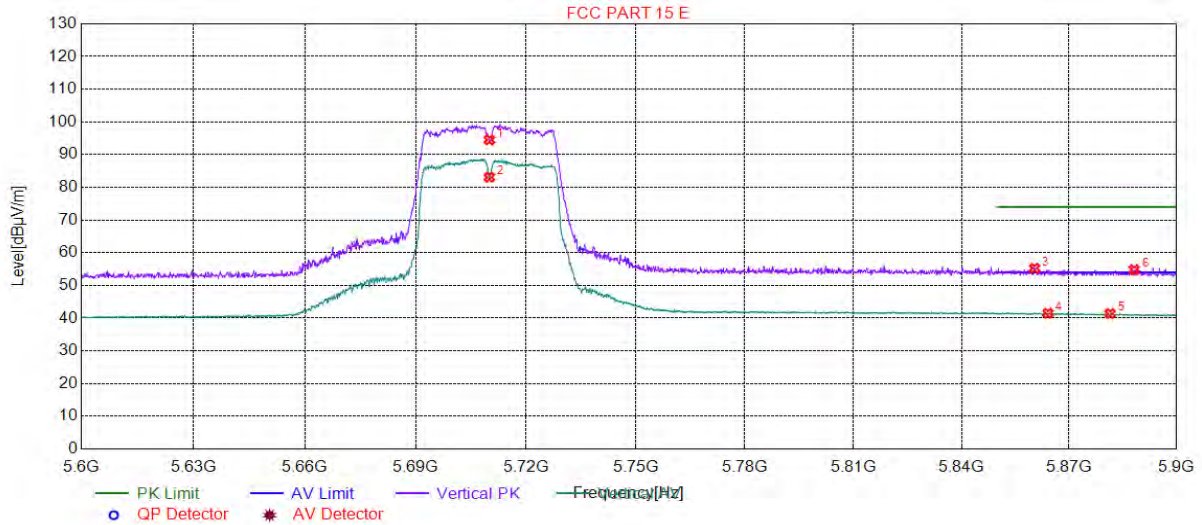


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4.10.1.86 802.11AC40_Channel 142

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5710.00	94.51	16.86	0.00	-94.51	269	199	Vertical
2	5710.00	83.11	16.86	0.00	-83.11	224	186	Vertical
3	5860.38	55.26	17.23	74.00	18.74	195	247	Vertical
4	5864.13	41.50	17.22	54.00	12.50	173	16	Vertical
5	5881.54	41.39	17.17	54.00	12.61	179	241	Vertical
6	5888.29	54.82	17.15	74.00	19.18	267	171	Vertical

Final Data List



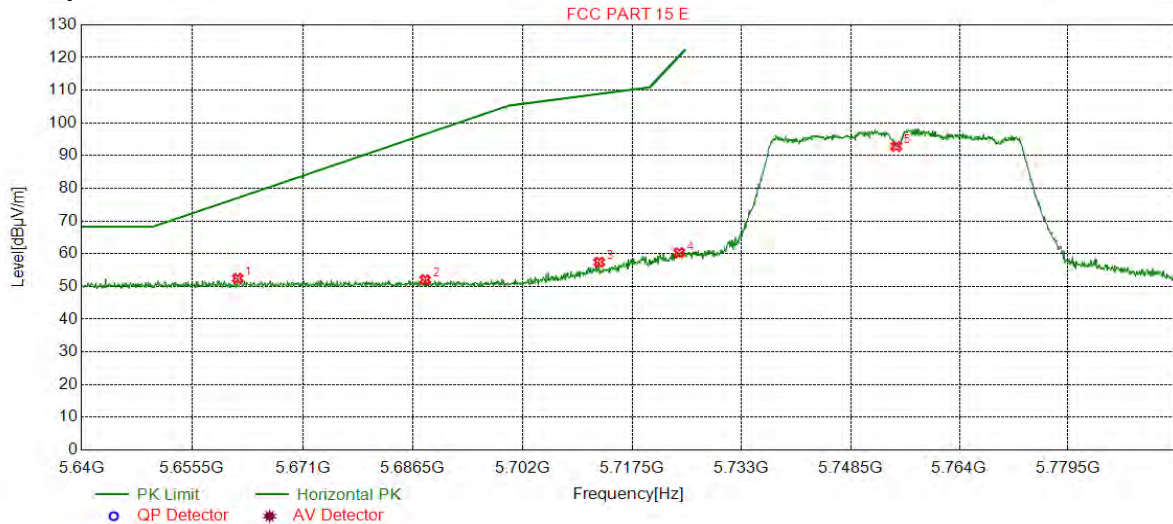
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4.10.1.87 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5661.86	52.48	16.59	77.08	24.60	172	148	Horizontal
2	5688.22	52.11	16.74	96.59	44.48	162	339	Horizontal
3	5712.80	57.45	16.88	108.89	51.44	117	152	Horizontal
4	5724.12	60.34	16.95	120.32	59.98	116	148	Horizontal
5	5755.00	92.84	17.13	0.00	-92.84	144	143	Horizontal

Final Data List

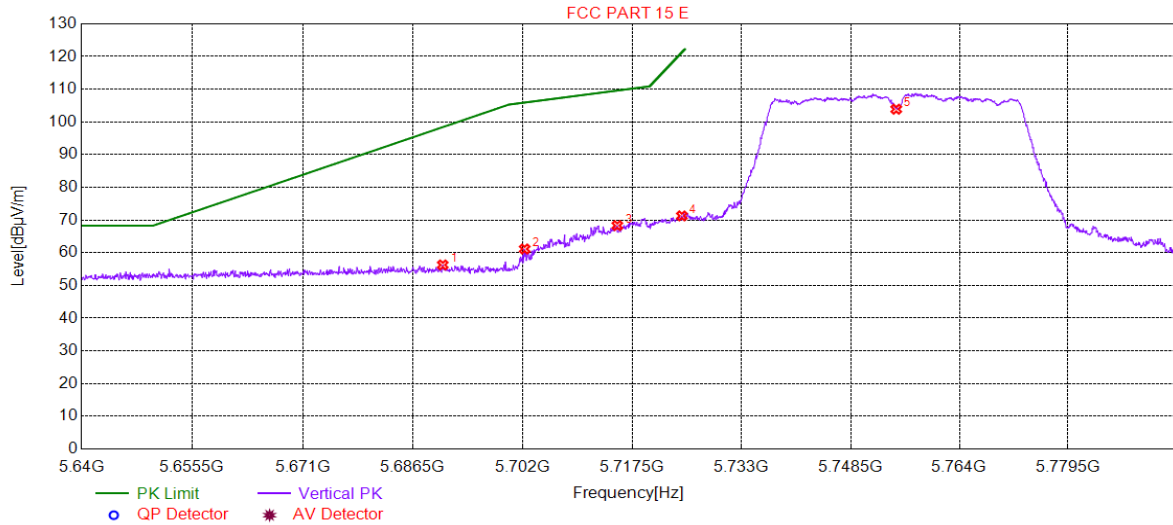


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4.10.1.88 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.71	56.29	16.75	98.43	42.14	164	1	Vertical
2	5702.26	61.16	16.81	105.93	44.77	199	284	Vertical
3	5715.36	68.32	16.90	109.60	41.28	155	284	Vertical
4	5724.51	71.28	16.96	121.20	49.92	233	326	Vertical
5	5755.00	103.90	17.13	0.00	-103.90	235	289	Vertical

Final Data List

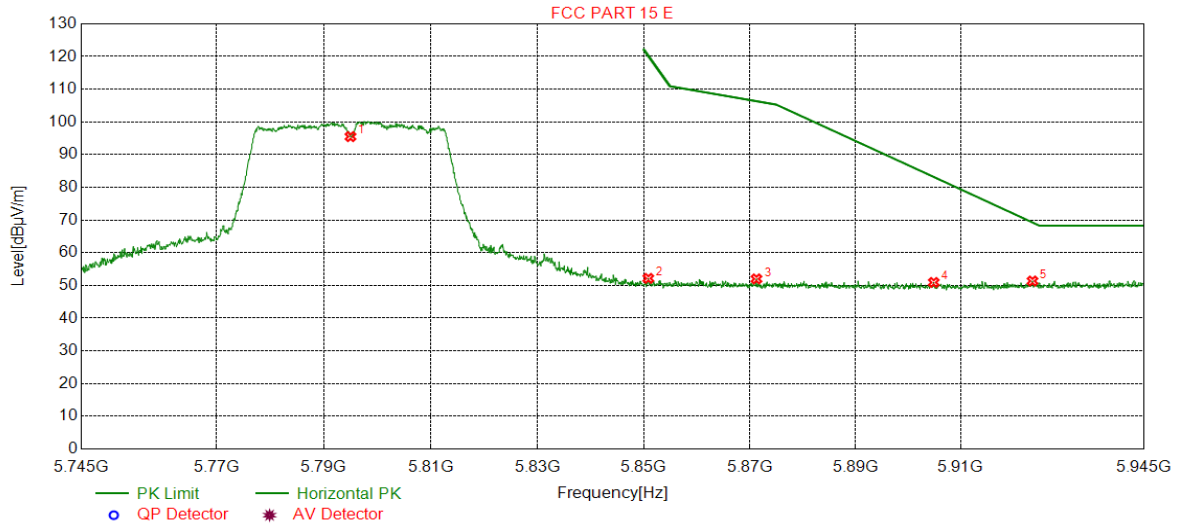


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4.10.1.89 802.11AC40_Channel 159

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	95.52	17.18	0.00	-95.52	237	80	Horizontal
2	5850.85	52.18	17.26	120.36	68.18	206	20	Horizontal
3	5871.26	52.02	17.20	106.35	54.33	170	359	Horizontal
4	5904.87	50.94	17.19	83.19	32.25	196	342	Horizontal
5	5923.68	51.37	17.47	69.27	17.90	164	200	Horizontal

Final Data List

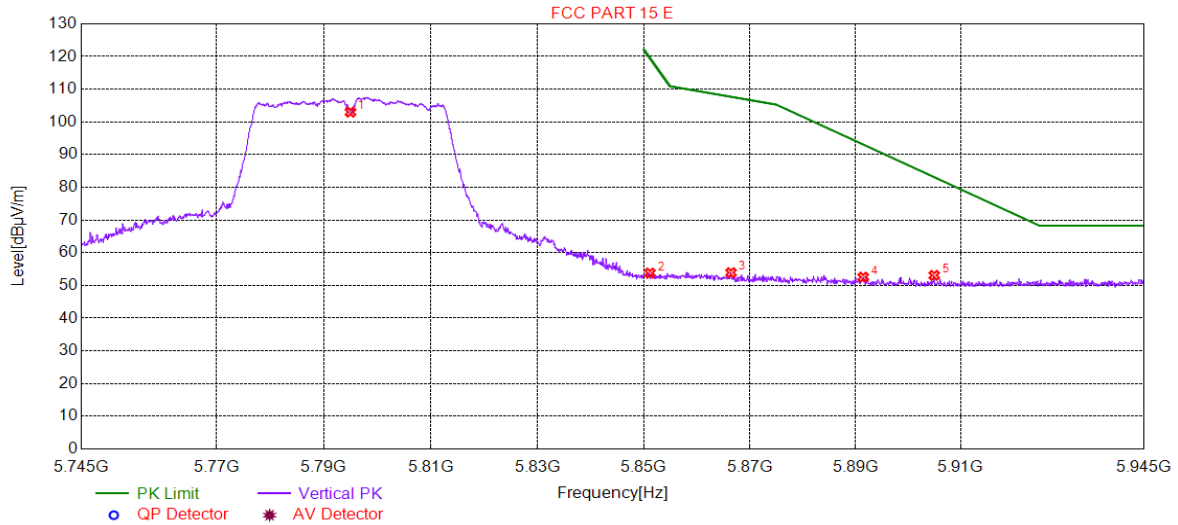


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4.10.1.90 802.11AC40_Channel 159

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	103.00	17.18	0.00	-103.00	228	5	Vertical
2	5851.15	53.80	17.26	119.67	65.87	241	340	Vertical
3	5866.46	53.93	17.21	107.69	53.76	250	344	Vertical
4	5891.47	52.57	17.14	93.11	40.54	191	344	Vertical
5	5904.98	53.11	17.19	83.11	30.00	299	344	Vertical

Final Data List

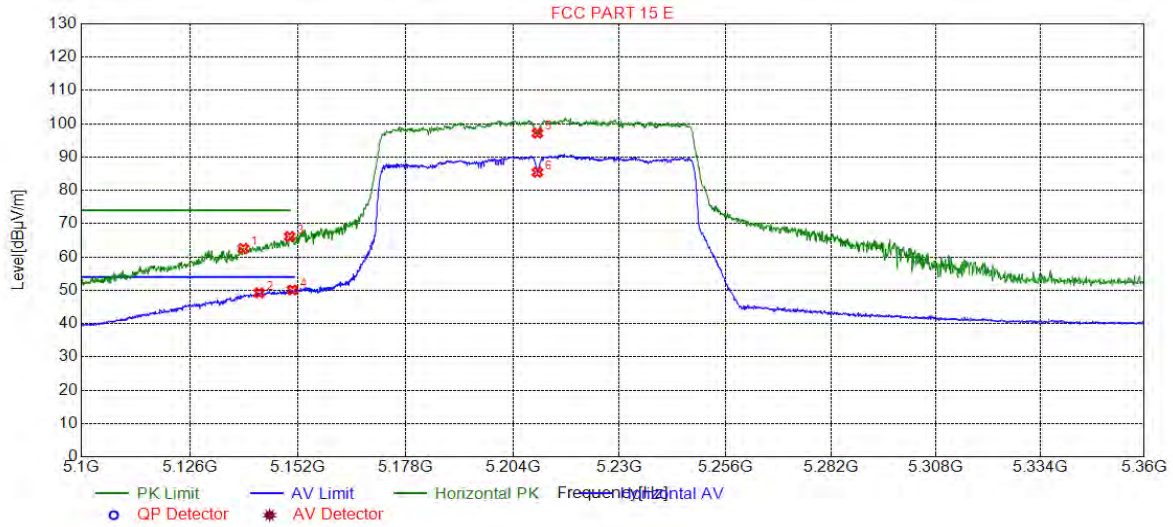


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4.10.1.91 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5138.75	62.56	15.42	74.00	11.44	205	303	Horizontal
2	5142.66	49.25	15.46	54.00	4.75	145	324	Horizontal
3	5149.94	66.15	15.52	74.00	7.85	143	303	Horizontal
4	5150.59	50.11	15.52	54.00	3.89	149	317	Horizontal
5	5210.00	97.18	15.56	0.00	-97.18	247	317	Horizontal
6	5210.00	85.44	15.56	0.00	-85.44	153	324	Horizontal

Final Data List



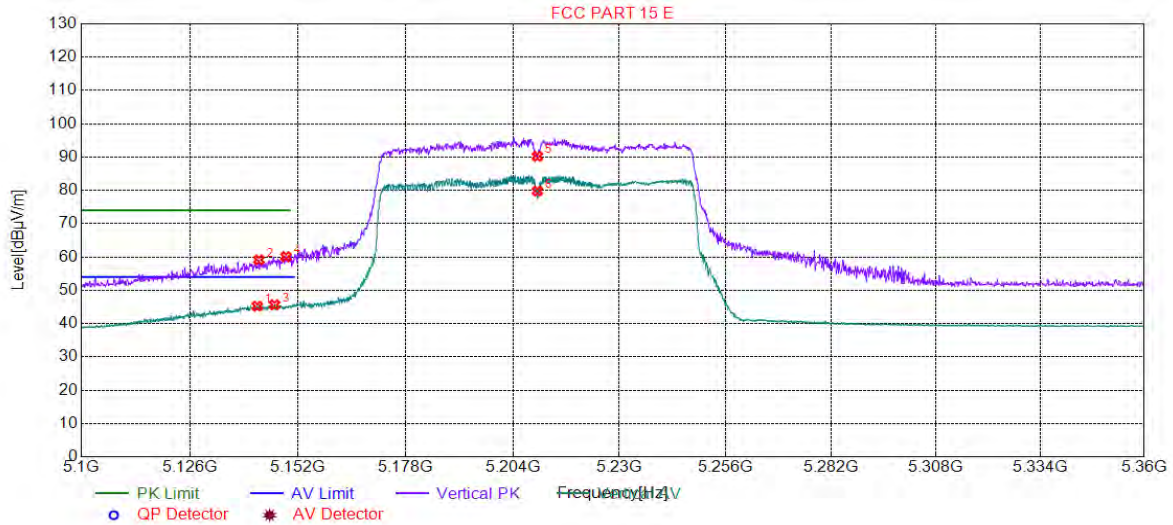
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4.10.1.92 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.14	45.25	15.45	54.00	8.75	201	244	Vertical
2	5142.53	59.17	15.46	74.00	14.83	185	251	Vertical
3	5146.30	45.67	15.49	54.00	8.33	270	244	Vertical
4	5149.03	60.12	15.51	74.00	13.88	168	90	Vertical
5	5210.00	90.22	15.56	0.00	-90.22	289	258	Vertical
6	5210.00	79.79	15.56	0.00	-79.79	194	258	Vertical

Final Data List

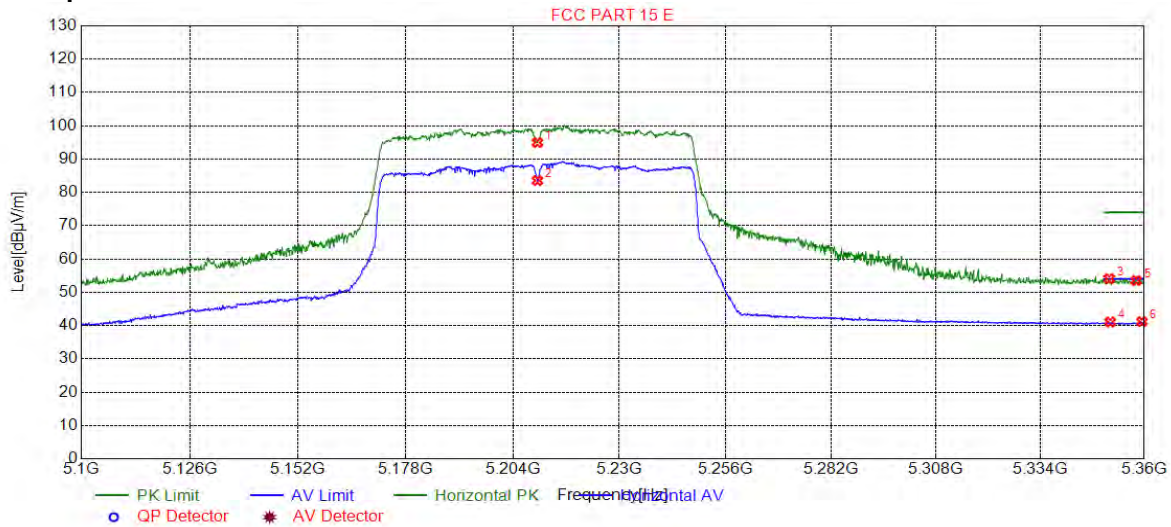


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4.10.1.93 802.11AC80_Channel 42

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	94.95	15.56	0.00	-94.95	240	334	Horizontal
2	5210.00	83.55	15.56	0.00	-83.55	202	341	Horizontal
3	5351.28	54.13	15.95	74.00	19.87	235	147	Horizontal
4	5351.54	41.10	15.95	54.00	12.90	186	22	Horizontal
5	5358.04	53.54	15.99	74.00	20.46	113	355	Horizontal
6	5359.47	41.21	16.00	54.00	12.79	190	16	Horizontal

Final Data List

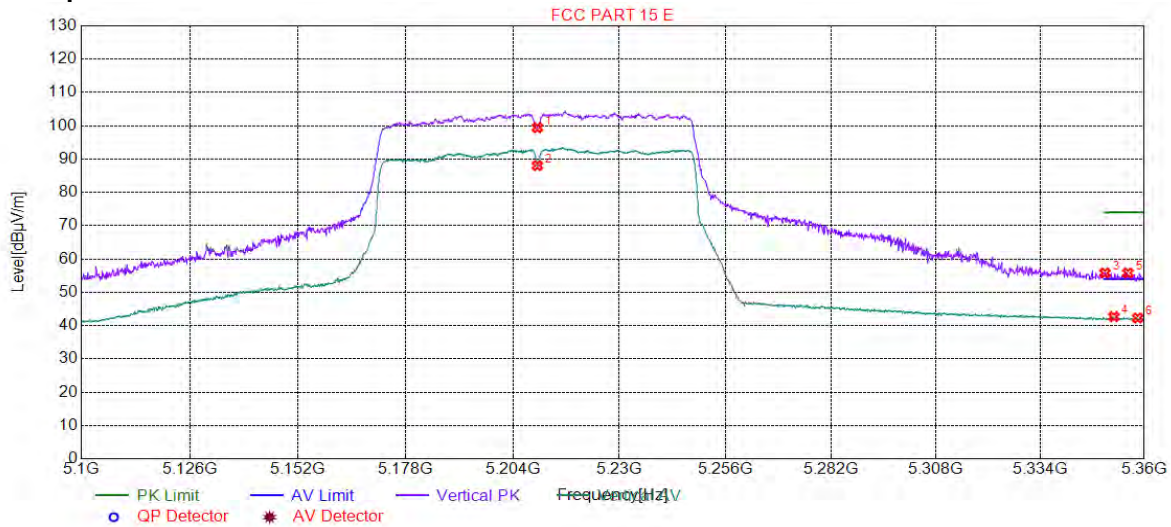


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4.10.1.94 802.11AC80_Channel 42

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	99.43	15.56	0.00	-99.43	238	1	Vertical
2	5210.00	88.04	15.56	0.00	-88.04	294	344	Vertical
3	5350.24	55.85	15.94	74.00	18.15	201	284	Vertical
4	5352.45	42.69	15.96	54.00	11.31	225	1	Vertical
5	5355.96	55.84	15.98	74.00	18.16	192	311	Vertical
6	5358.43	42.30	15.99	54.00	11.70	185	344	Vertical

Final Data List

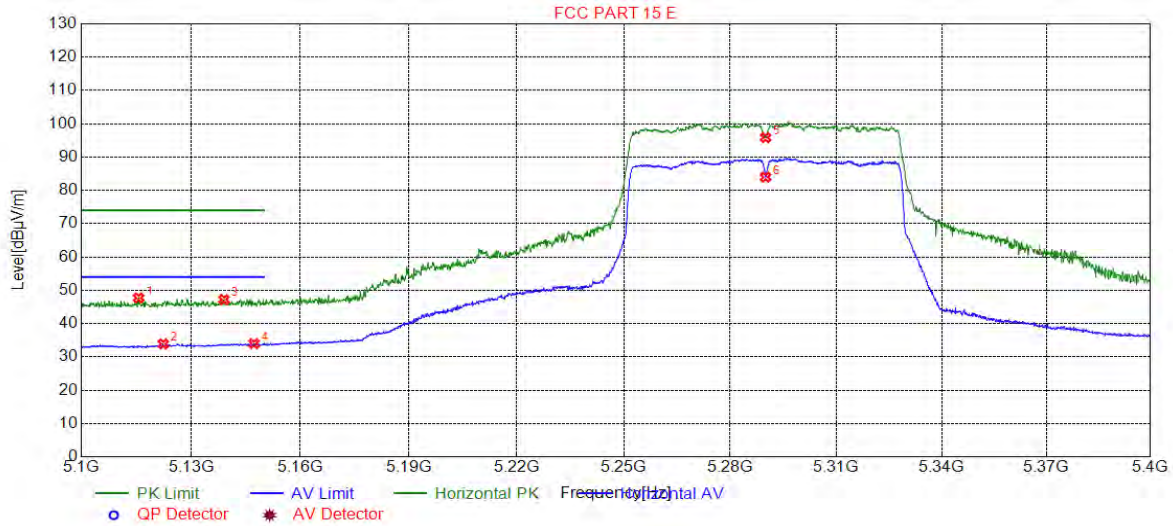


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4.10.1.95 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5115.60	47.74	15.22	74.00	26.26	155	16	Horizontal
2	5122.36	33.92	15.28	54.00	20.08	124	340	Horizontal
3	5139.01	47.24	15.43	74.00	26.76	193	358	Horizontal
4	5147.27	34.01	15.50	54.00	19.99	130	90	Horizontal
5	5290.00	95.86	15.65	0.00	-95.86	176	360	Horizontal
6	5290.00	83.99	15.65	0.00	-83.99	232	358	Horizontal

Final Data List

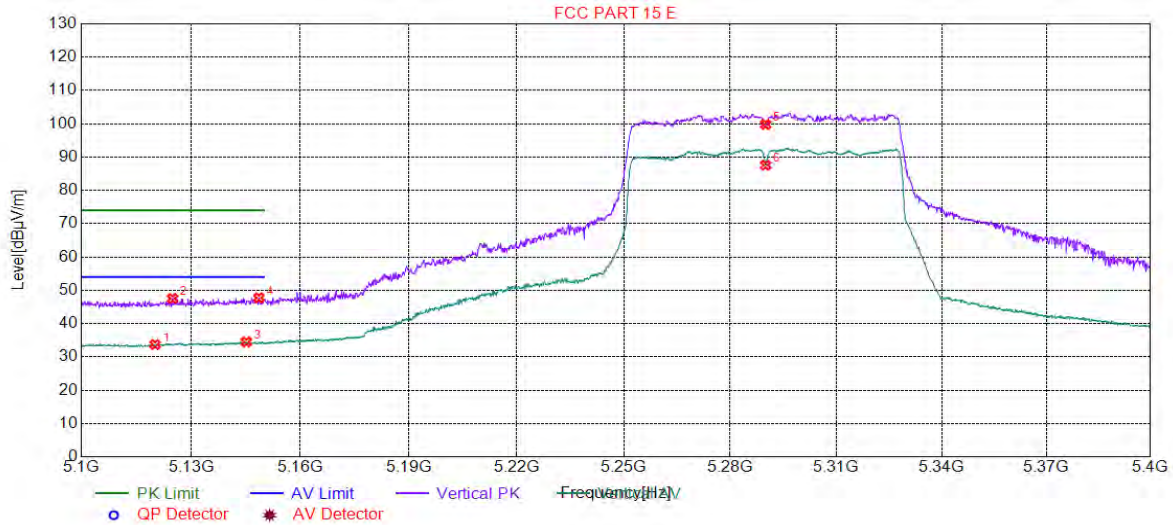


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4.10.1.96 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.11	33.76	15.26	54.00	20.24	163	344	Vertical
2	5124.91	47.57	15.30	74.00	26.43	252	3	Vertical
3	5145.17	34.53	15.48	54.00	19.47	272	0	Vertical
4	5148.62	47.77	15.51	74.00	26.23	202	24	Vertical
5	5290.00	99.78	15.65	0.00	-99.78	238	10	Vertical
6	5290.00	87.56	15.65	0.00	-87.56	158	344	Vertical

Final Data List

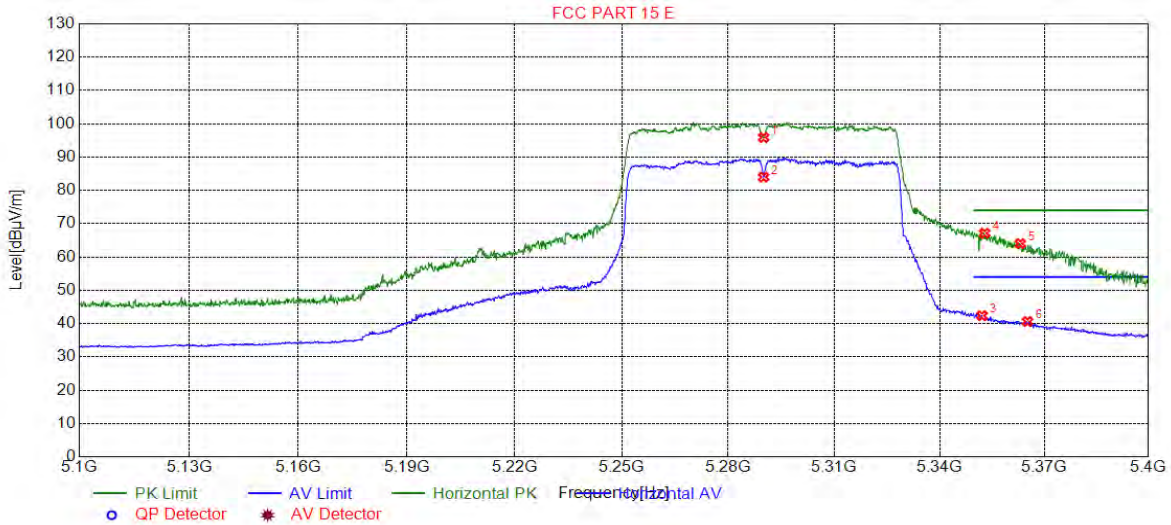


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4.10.1.97 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	95.88	15.65	0.00	-95.88	219	16	Horizontal
2	5290.00	84.00	15.65	0.00	-84.00	103	16	Horizontal
3	5352.12	42.41	15.95	54.00	11.59	215	16	Horizontal
4	5352.87	67.14	15.96	74.00	6.86	158	16	Horizontal
5	5363.08	64.04	16.02	74.00	9.96	164	360	Horizontal
6	5365.18	40.65	16.03	54.00	13.35	202	16	Horizontal

Final Data List

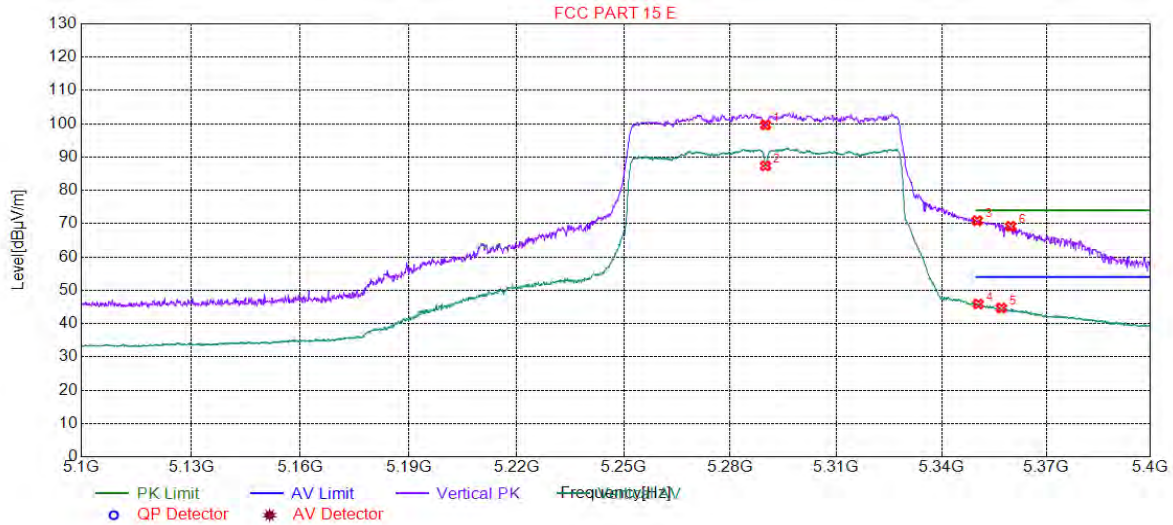


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4.10.1.98 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	99.63	15.65	0.00	-99.63	259	0	Vertical
2	5290.00	87.34	15.65	0.00	-87.34	160	344	Vertical
3	5350.17	70.89	15.94	74.00	3.11	233	8	Vertical
4	5350.47	45.90	15.94	54.00	8.10	281	337	Vertical
5	5357.07	44.70	15.98	54.00	9.30	233	8	Vertical
6	5359.77	69.20	16.00	74.00	4.80	288	8	Vertical

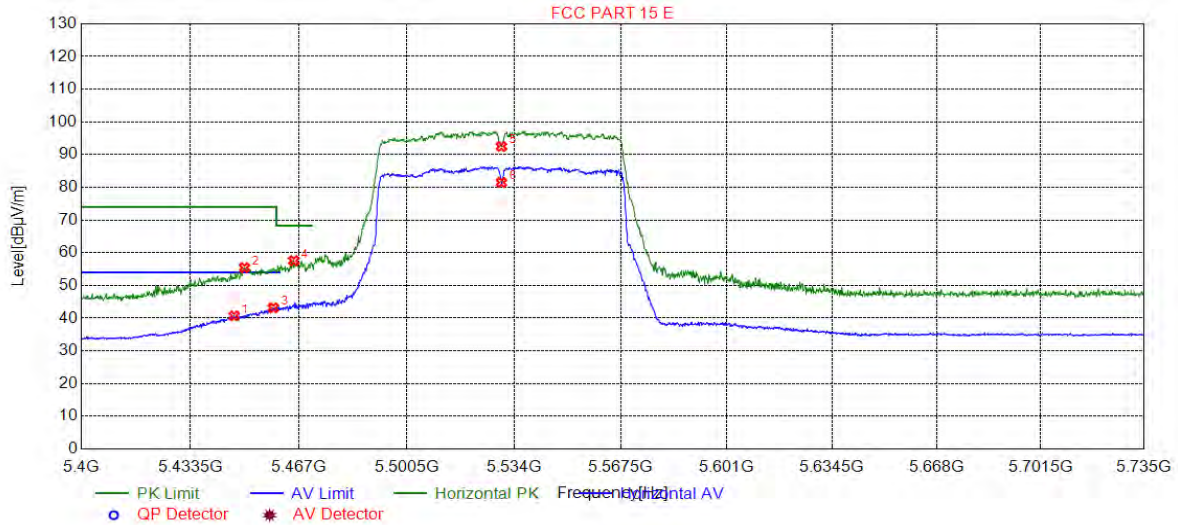
Final Data List



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4.10.1.99 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.92	40.69	16.25	54.00	13.31	216	70	Horizontal
2	5450.10	55.44	16.25	74.00	18.56	110	16	Horizontal
3	5458.98	43.15	16.25	54.00	10.85	223	70	Horizontal
4	5465.35	57.58	16.25	68.30	10.72	106	16	Horizontal
5	5530.00	92.49	16.35	0.00	-92.49	134	353	Horizontal
6	5530.00	81.49	16.35	0.00	-81.49	164	63	Horizontal

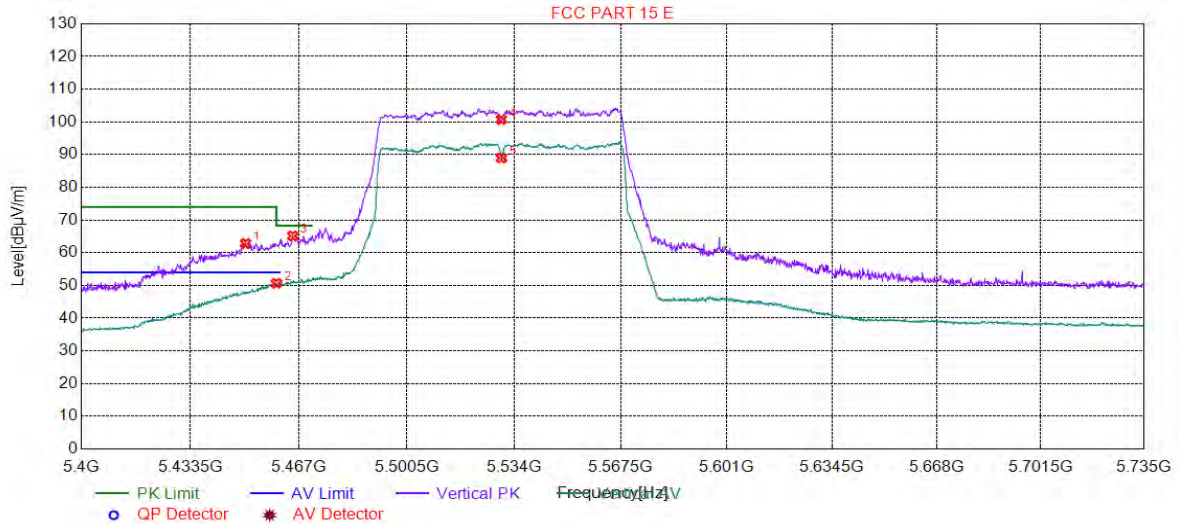
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4.10.1.100 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5450.44	62.85	16.25	74.00	11.15	188	331	Vertical
2	5459.99	50.67	16.25	54.00	3.33	166	344	Vertical
3	5465.02	65.16	16.25	68.30	3.14	250	331	Vertical
4	5530.00	100.73	16.35	0.00	-100.73	289	344	Vertical
5	5530.00	88.99	16.35	0.00	-88.99	200	344	Vertical

Final Data List

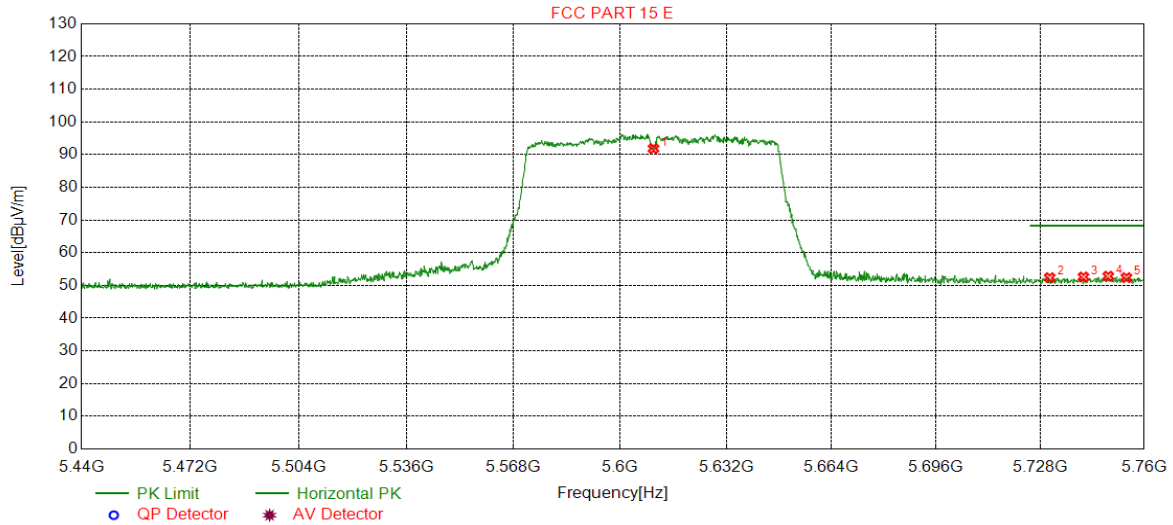


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4.10.1.101 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	91.85	16.58	0.00	-91.85	214	162	Horizontal
2	5730.86	52.38	17.00	68.30	15.92	240	47	Horizontal
3	5741.27	52.61	17.06	68.30	15.69	122	305	Horizontal
4	5748.95	52.84	17.11	68.30	15.46	211	75	Horizontal
5	5754.55	52.40	17.13	68.30	15.90	151	254	Horizontal

Final Data List

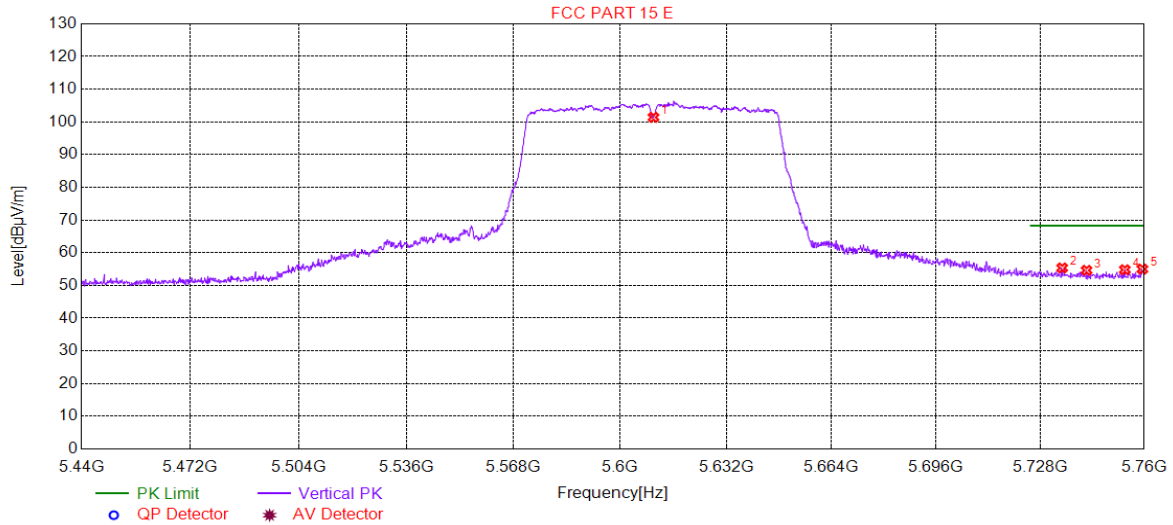


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4.10.1.102 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	101.41	16.58	0.00	-101.41	230	344	Vertical
2	5734.70	55.37	17.02	68.30	12.93	163	340	Vertical
3	5742.23	54.64	17.07	68.30	13.66	259	22	Vertical
4	5754.07	54.82	17.13	68.30	13.48	292	322	Vertical
5	5759.51	55.01	17.13	68.30	13.29	243	280	Vertical

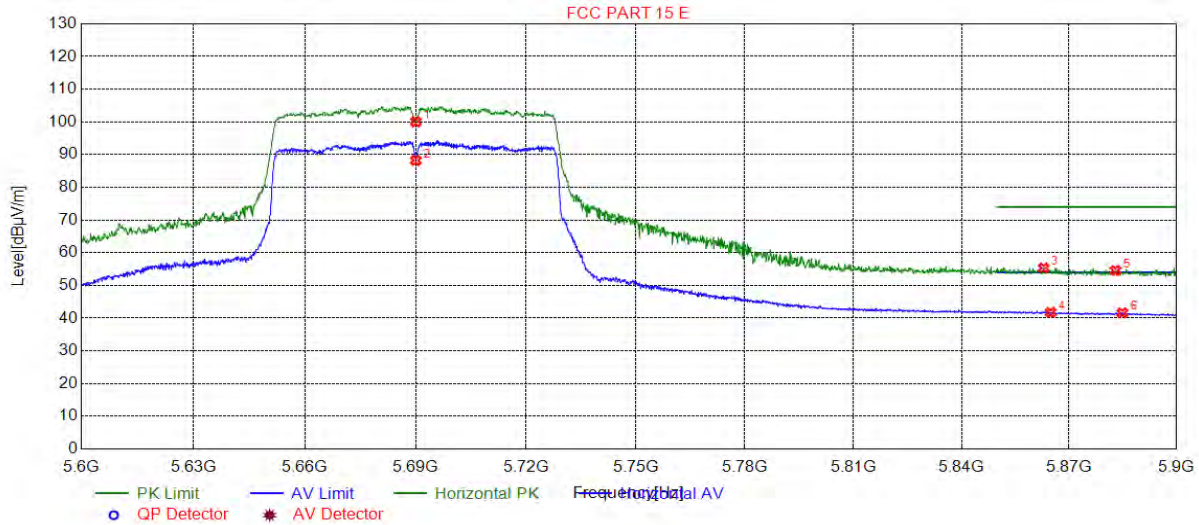
Final Data List



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4.10.1.103 802.11AC80_Channel 138

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.00	100.07	16.75	0.00	-100.07	114	324	Horizontal
2	5690.00	88.24	16.75	0.00	-88.24	172	311	Horizontal
3	5862.93	55.34	17.22	74.00	18.66	233	331	Horizontal
4	5864.88	41.73	17.22	54.00	12.27	103	324	Horizontal
5	5883.04	54.60	17.16	74.00	19.40	226	304	Horizontal
6	5884.99	41.64	17.16	54.00	12.36	227	324	Horizontal

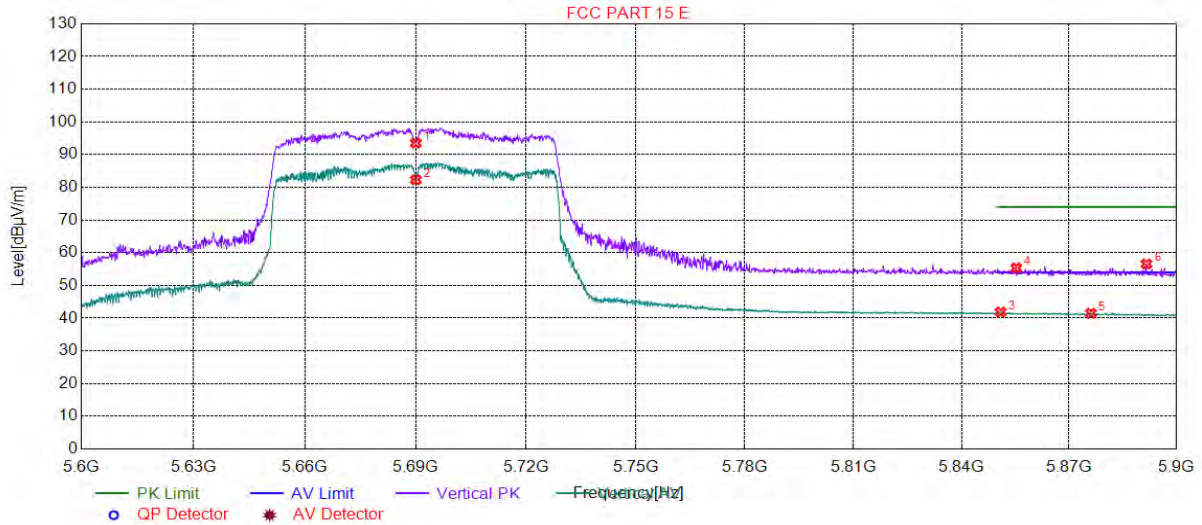
Final Data List



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4.10.1.104 802.11AC80_Channel 138

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.00	93.53	16.75	0.00	-93.53	219	188	Vertical
2	5690.00	82.32	16.75	0.00	-82.32	211	201	Vertical
3	5850.92	41.86	17.26	54.00	12.14	181	194	Vertical
4	5855.27	55.32	17.24	74.00	18.68	217	181	Vertical
5	5876.13	41.50	17.18	54.00	12.50	233	201	Vertical
6	5891.74	56.59	17.13	74.00	17.41	253	99	Vertical

Final Data List



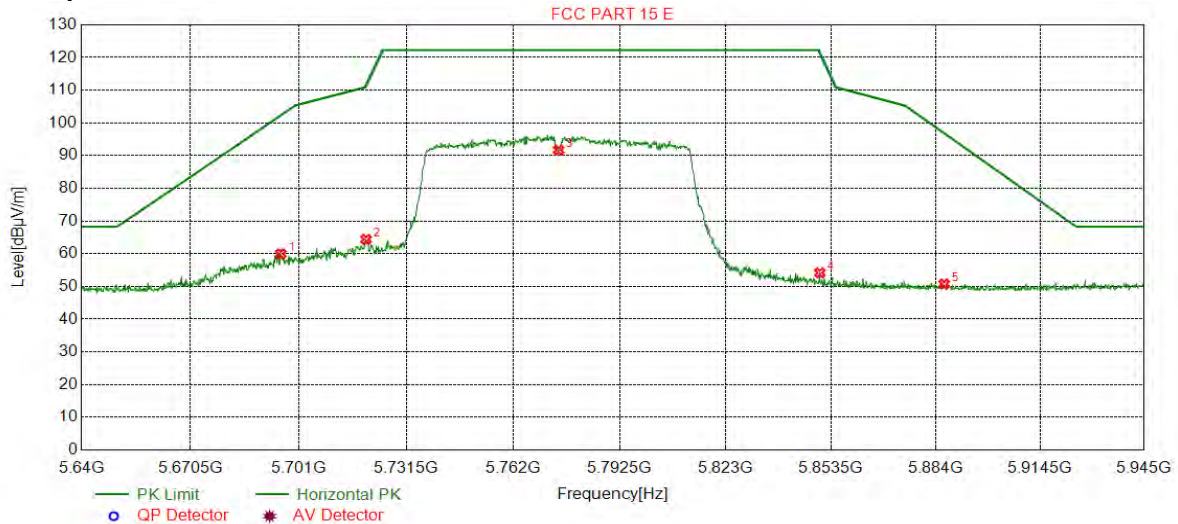
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4.10.1.105 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5695.99	59.99	16.78	102.34	42.35	146	168	Horizontal
2	5720.10	64.42	16.93	111.13	46.71	109	150	Horizontal
3	5775.00	91.72	17.16	122.30	30.58	156	150	Horizontal
4	5850.25	54.19	17.26	121.73	67.54	152	150	Horizontal
5	5886.41	50.75	17.15	96.86	46.11	107	108	Horizontal

Final Data List

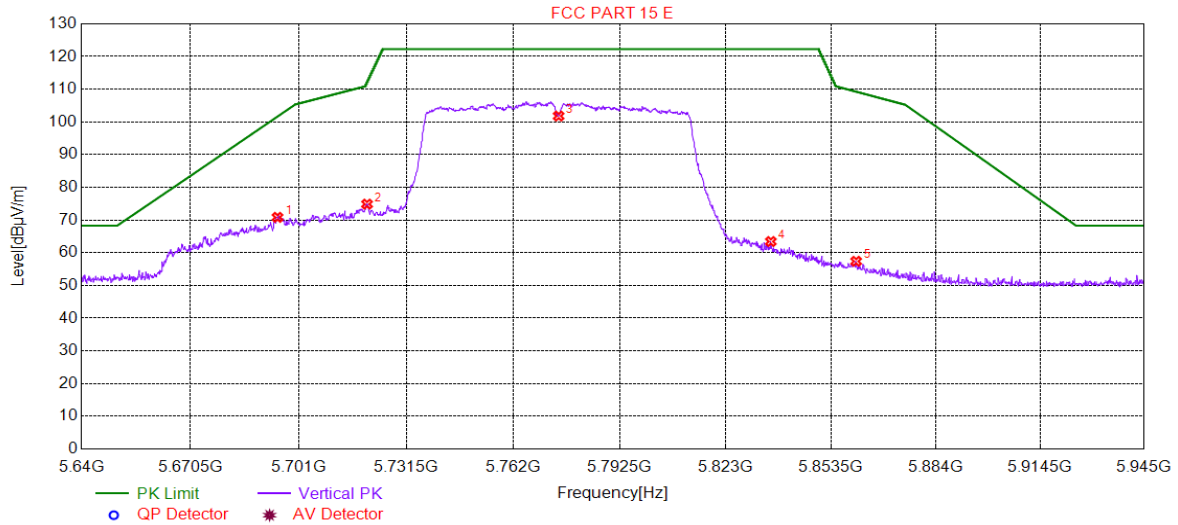


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4.10.1.106 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5695.08	70.83	16.77	101.66	30.83	271	344	Vertical
2	5720.40	74.88	16.93	111.83	36.95	182	344	Vertical
3	5775.00	101.81	17.16	122.30	20.49	173	321	Vertical
4	5836.06	63.44	17.24	122.30	58.86	237	340	Vertical
5	5860.77	57.40	17.23	109.28	51.88	179	344	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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4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.003689	5825.007193
V max(V)	5180.008716	5825.013436
V min(V)	5180.016497	5825.015781
Max. Deviation Frequency	0.016497	0.015781
Max. Frequency Error (ppm)	3.184683	2.709257

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.006629	5825.000336
5	5180.009749	5825.001818
15	5180.012156	5825.008288
25	5180.018551	5825.017779
35	5180.018820	5825.026893
45	5180.021551	5825.031378
50	5180.026074	5825.037916
Max. Deviation Frequency	0.026074	0.037916
Max. Frequency Error (ppm)	5.033601	6.509218



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4.12 Dynamic Frequency Selection

4.12.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<p>Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		



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4.12.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p>Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	



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4.12.1 Test plots

4.13 DFS Detection Thresholds

4.13.1 Test Result

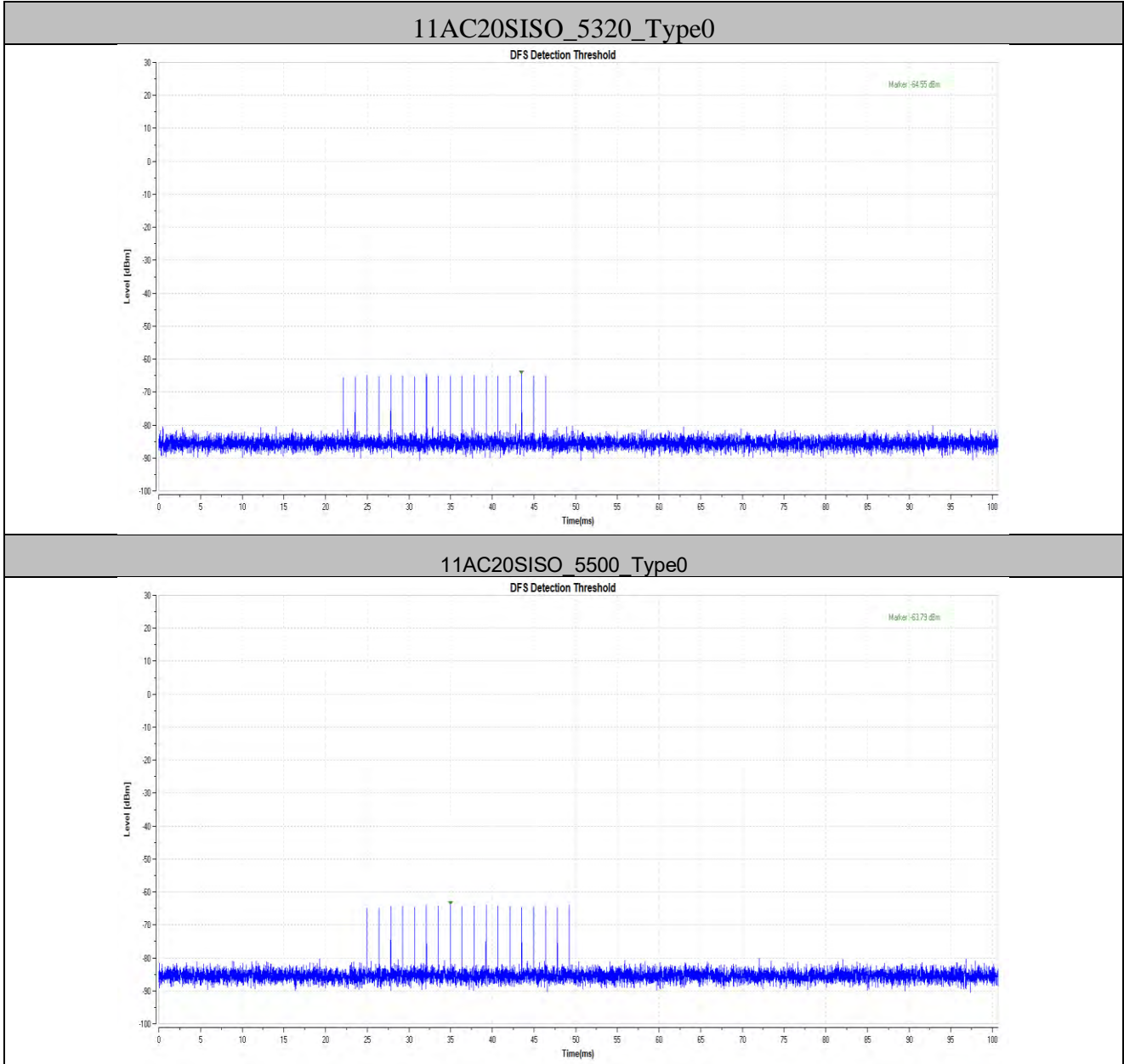
TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-64.55	-61.00	PASS
	5500	Type0	-63.79	-61.00	PASS
11AC80SISO	5290	Type0	-63.86	-61.00	PASS
	5530	Type0	-63.88	-61.00	PASS



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4.13.2 Test Graphs



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