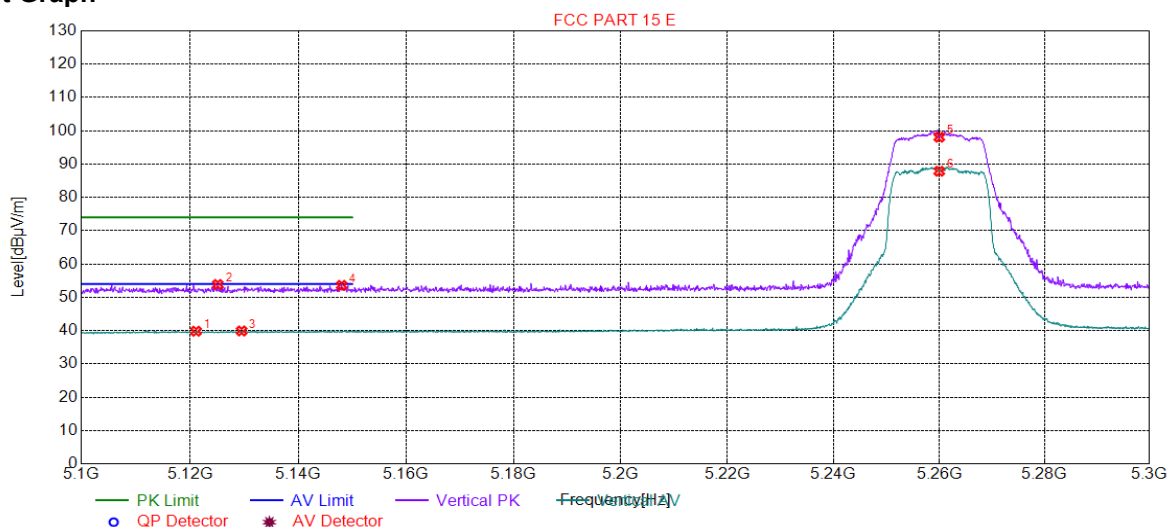


4.11.1.54 802.11AC20_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5121.11	39.84	15.27	54.00	14.16	222	353	Vertical
2	5125.11	53.87	15.31	74.00	20.13	190	360	Vertical
3	5129.51	39.92	15.34	54.00	14.08	166	139	Vertical
4	5148.02	53.60	15.50	74.00	20.40	257	42	Vertical
5	5260.00	98.07	15.51	0.00	-98.07	274	111	Vertical
6	5260.00	87.86	15.51	0.00	-87.86	163	125	Vertical

Final Data List

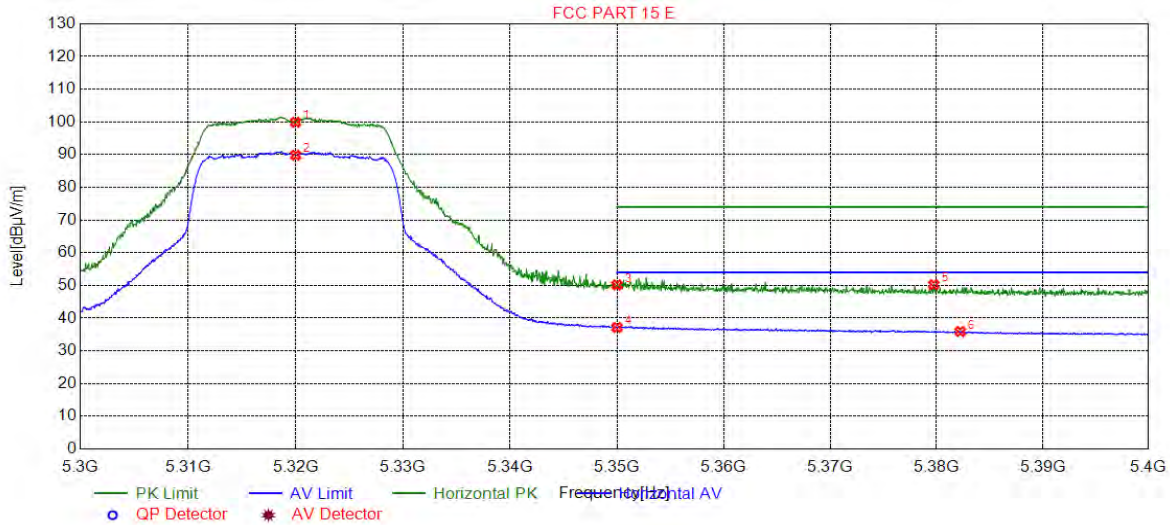


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4.11.1.55 802.11AC20_Channel 64

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	99.92	15.80	0.00	-99.92	149	84	Horizontal
2	5320.00	89.84	15.80	0.00	-89.84	114	36	Horizontal
3	5350.00	50.15	15.94	74.00	23.85	114	16	Horizontal
4	5350.00	37.18	15.94	54.00	16.82	236	188	Horizontal
5	5379.73	50.24	16.12	74.00	23.76	179	194	Horizontal
6	5382.24	35.93	16.14	54.00	18.07	164	188	Horizontal

Final Data List

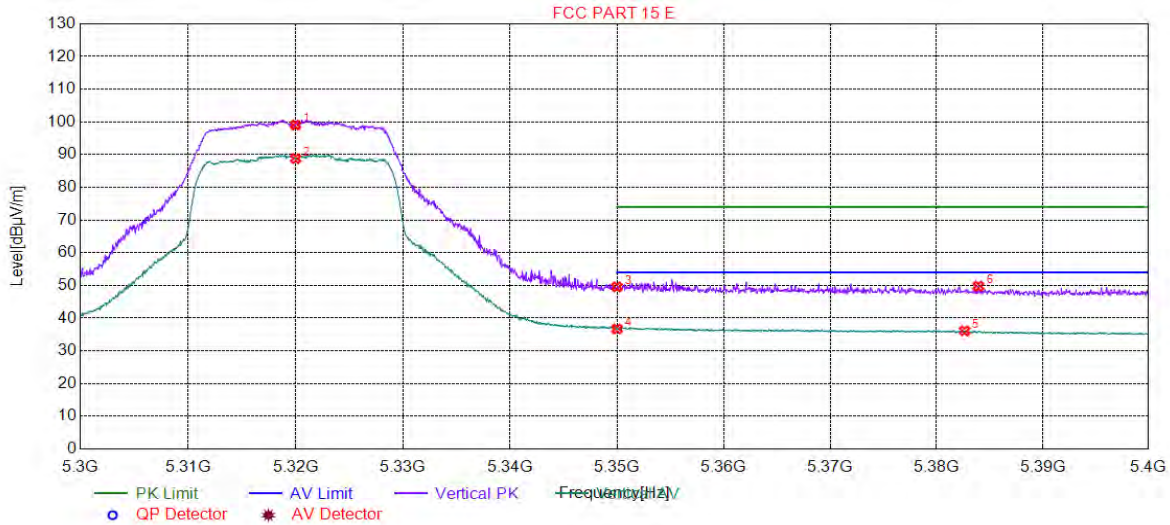


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4.11.1.56 802.11AC20_Channel 64

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	99.09	15.80	0.00	-99.09	212	125	Vertical
2	5320.00	88.79	15.80	0.00	-88.79	291	132	Vertical
3	5350.00	49.58	15.94	74.00	24.42	196	16	Vertical
4	5350.00	36.72	15.94	54.00	17.28	187	118	Vertical
5	5382.64	36.14	16.14	54.00	17.86	186	318	Vertical
6	5383.94	49.79	16.15	74.00	24.21	299	325	Vertical

Final Data List



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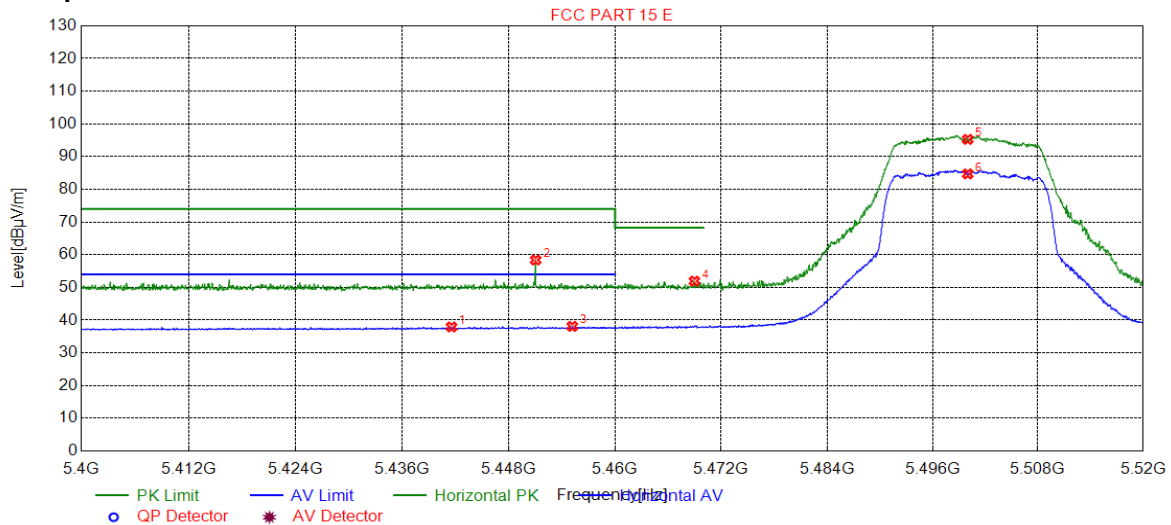
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4.11.1.57 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5441.54	37.94	16.25	54.00	16.06	119	346	Horizontal
2	5451.02	58.40	16.25	74.00	15.60	173	42	Horizontal
3	5455.16	38.12	16.25	54.00	15.88	100	346	Horizontal
4	5468.97	51.96	16.25	68.30	16.34	204	179	Horizontal
5	5500.00	95.29	16.25	0.00	-95.29	222	0	Horizontal
6	5500.00	84.73	16.25	0.00	-84.73	228	346	Horizontal

Final Data List



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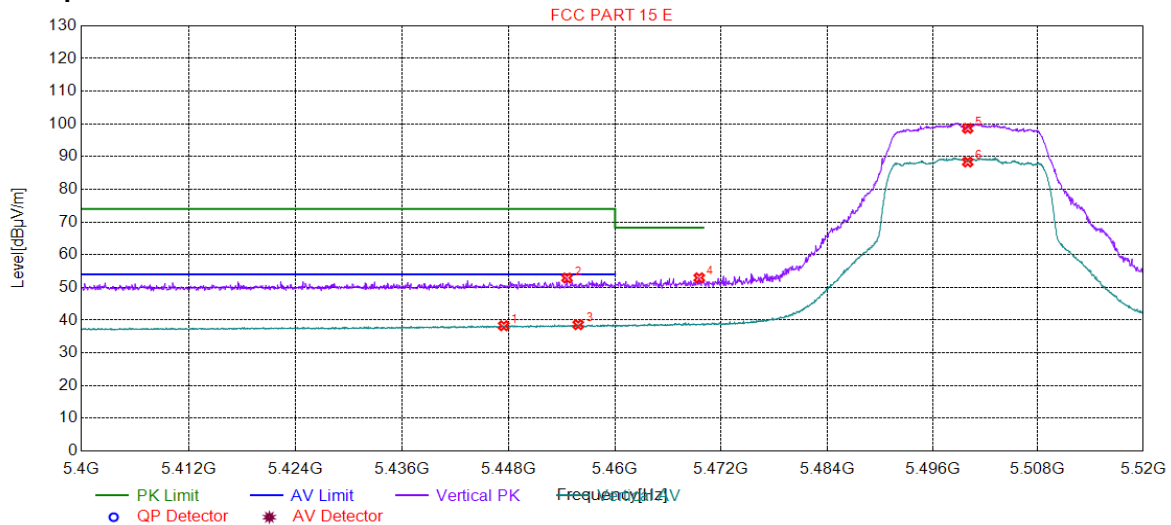
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4.11.1.58 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5447.42	38.30	16.25	54.00	15.70	199	351	Vertical
2	5454.56	52.90	16.25	74.00	21.10	156	24	Vertical
3	5455.82	38.64	16.25	54.00	15.36	235	351	Vertical
4	5469.51	52.96	16.25	68.30	15.34	257	360	Vertical
5	5500.00	98.65	16.25	0.00	-98.65	260	329	Vertical
6	5500.00	88.36	16.25	0.00	-88.36	244	351	Vertical

Final Data List



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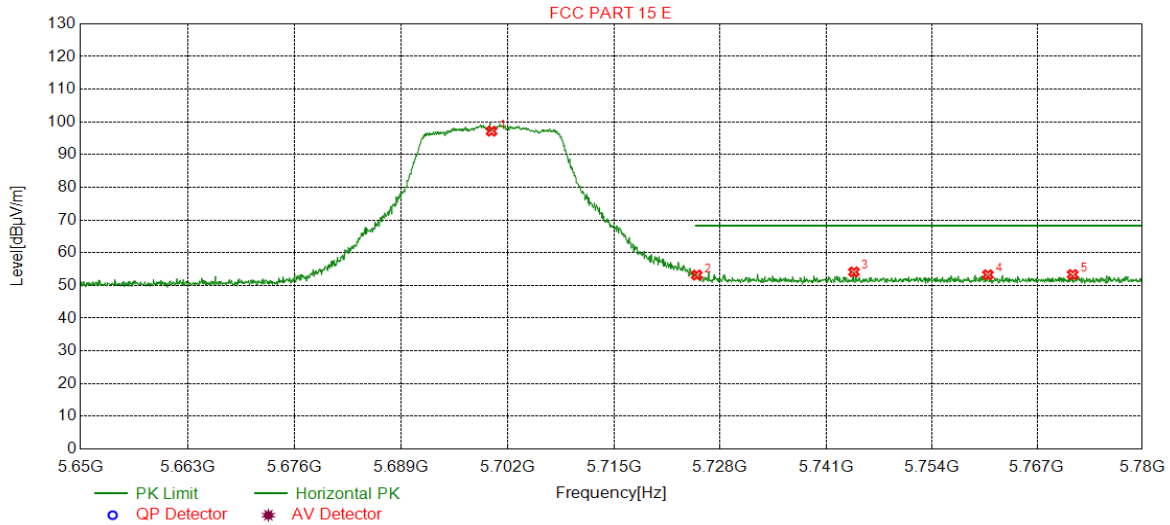
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4.11.1.59 802.11AC20_Channel 140

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	97.18	16.80	0.00	-97.18	145	152	Horizontal
2	5725.11	53.19	16.96	68.30	15.11	217	180	Horizontal
3	5744.42	54.14	17.08	68.30	14.16	110	152	Horizontal
4	5760.94	53.28	17.14	68.30	15.02	115	152	Horizontal
5	5771.41	53.34	17.15	68.30	14.96	174	147	Horizontal

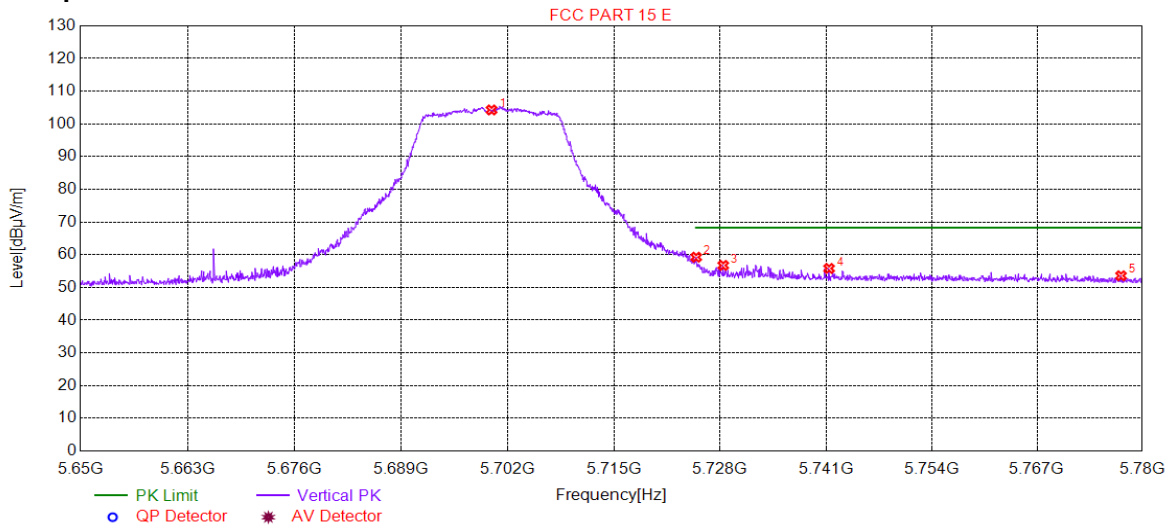
Final Data List





4.11.1.60 802.11AC20_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	104.28	16.80	0.00	-104.28	242	314	Vertical
2	5725.04	59.26	16.96	68.30	9.04	298	314	Vertical
3	5728.36	56.75	16.98	68.30	11.55	167	319	Vertical
4	5741.37	55.82	17.06	68.30	12.48	174	319	Vertical
5	5777.39	53.59	17.16	68.30	14.71	179	277	Vertical

Final Data List

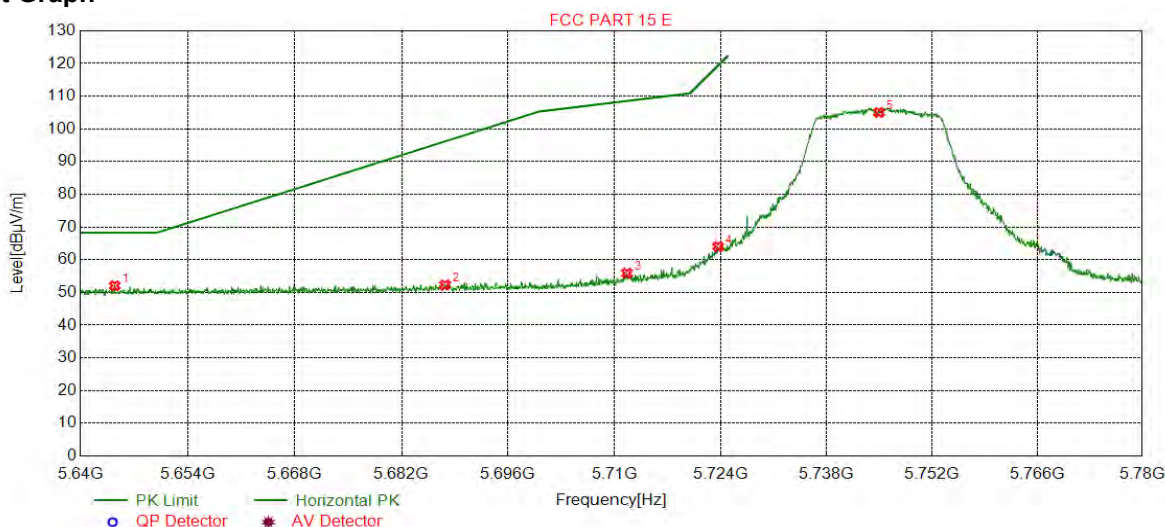


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4.11.1.61 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.48	52.08	16.54	68.30	16.22	122	217	Horizontal
2	5687.69	52.33	16.73	96.19	43.86	233	304	Horizontal
3	5711.64	55.91	16.87	108.56	52.65	164	300	Horizontal
4	5723.69	64.04	16.95	119.32	55.28	168	290	Horizontal
5	5745.00	105.04	17.09	0.00	-105.04	105	290	Horizontal

Final Data List



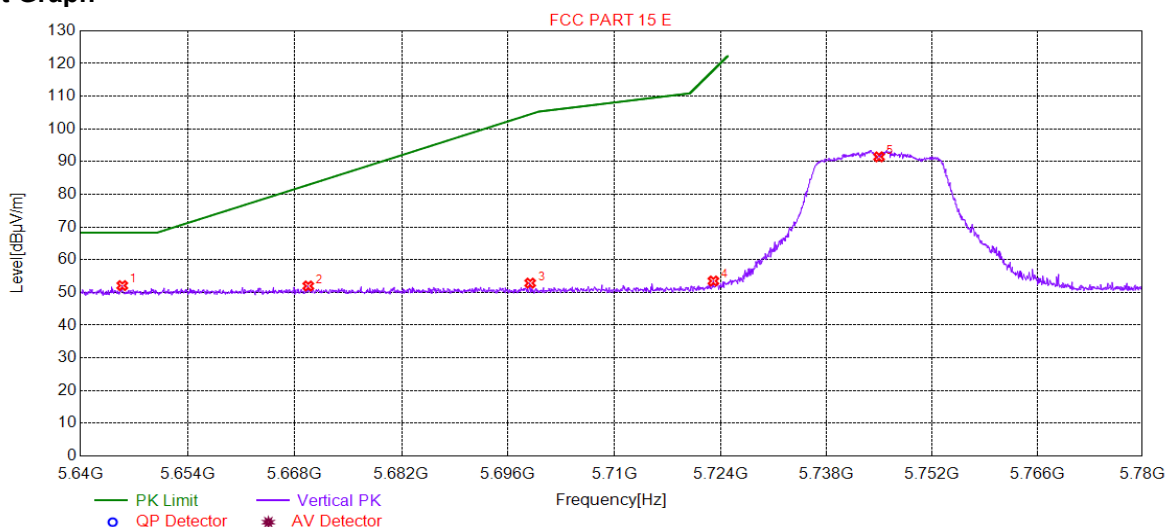
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4.11.1.62 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.46	52.11	16.54	68.30	16.19	193	90	Vertical
2	5669.76	51.99	16.64	82.93	30.94	206	20	Vertical
3	5698.89	52.87	16.79	104.49	51.62	210	48	Vertical
4	5723.06	53.51	16.95	117.88	64.37	166	209	Vertical
5	5745.00	91.47	17.09	0.00	-91.47	219	209	Vertical

Final Data List

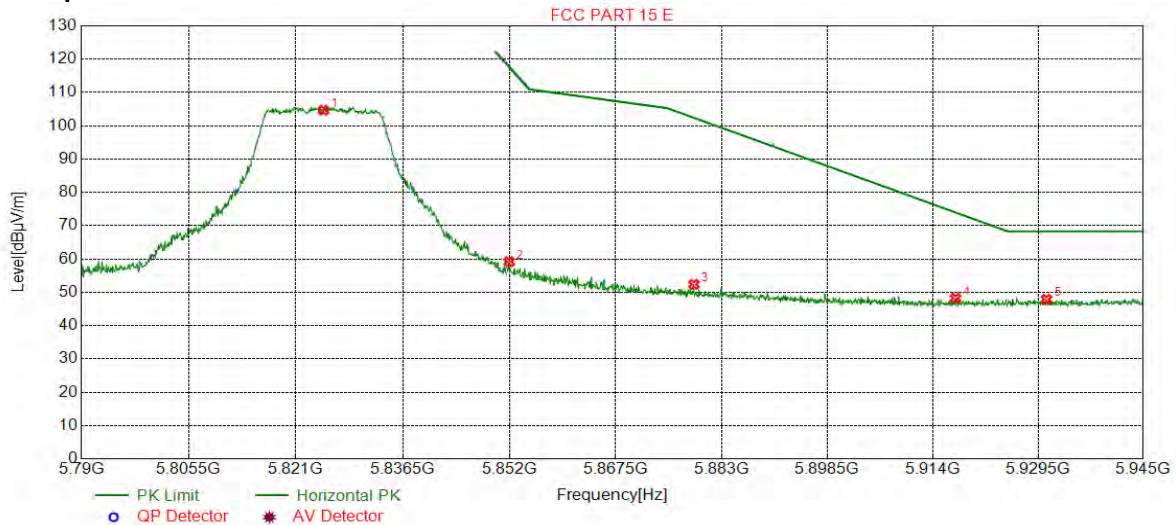


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4.11.1.63 802.11AC20_Channel 165

Test Graph



Suspected List

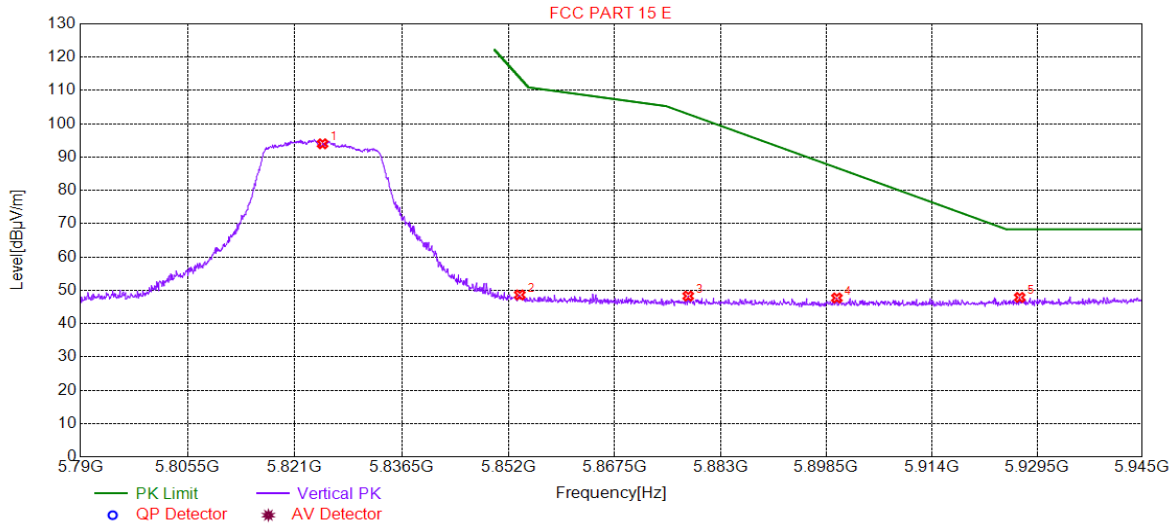
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	104.66	17.23	0.00	-104.66	124	207	Horizontal
2	5851.95	59.18	17.25	117.85	58.67	117	295	Horizontal
3	5878.93	52.41	17.17	102.39	49.98	158	276	Horizontal
4	5917.31	48.24	17.38	73.98	25.74	214	295	Horizontal
5	5930.73	47.90	17.58	68.30	20.40	183	300	Horizontal

Final Data List



4.11.1.64 802.11AC20_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	93.99	17.23	0.00	-93.99	196	203	Vertical
2	5853.65	48.64	17.25	113.96	65.32	215	207	Vertical
3	5878.23	48.30	17.18	102.90	54.60	186	217	Vertical
4	5900.02	47.72	17.11	86.78	39.06	263	226	Vertical
5	5926.93	47.88	17.52	68.30	20.42	180	226	Vertical

Final Data List

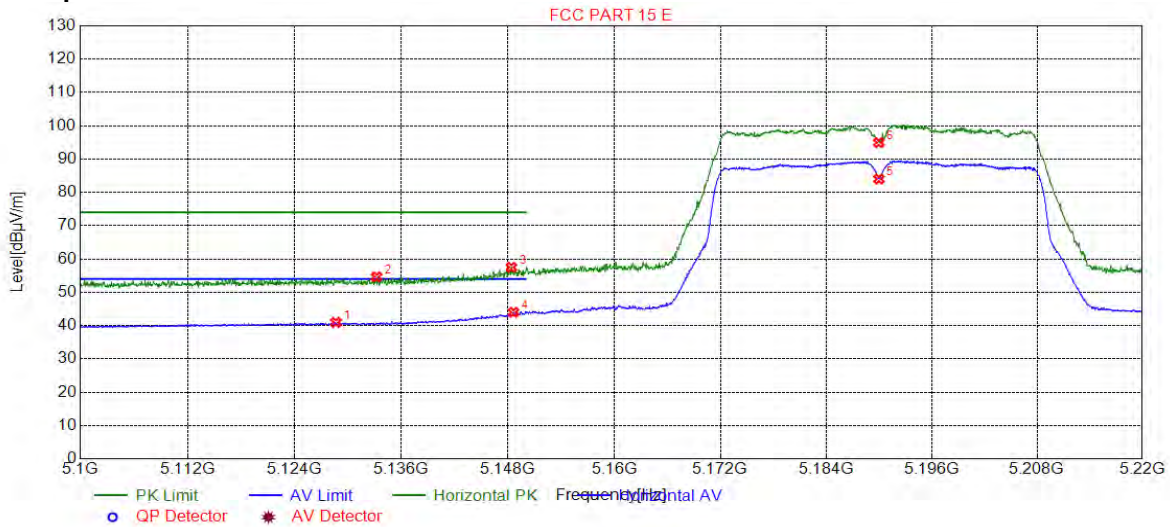


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4.11.1.65 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5128.63	40.97	15.34	54.00	13.03	165	194	Horizontal
2	5133.19	54.66	15.38	74.00	19.34	188	183	Horizontal
3	5148.38	57.52	15.51	74.00	16.48	174	194	Horizontal
4	5148.62	44.02	15.51	54.00	9.98	176	199	Horizontal
5	5190.00	84.02	15.58	0.00	-84.02	149	199	Horizontal
6	5190.00	94.93	15.58	0.00	-94.93	204	194	Horizontal

Final Data List



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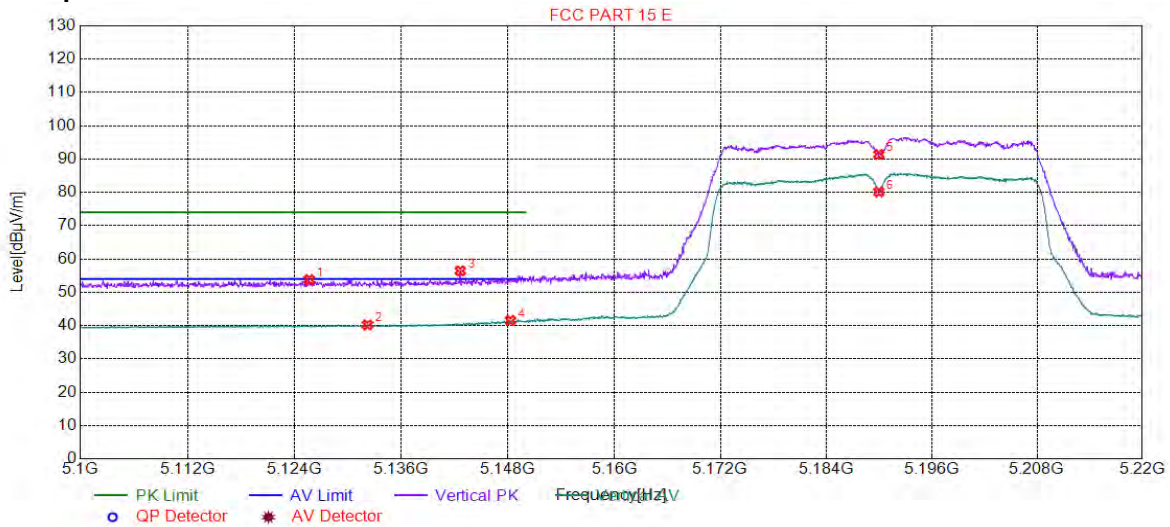
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4.11.1.66 802.11AC40_Channel 38

Test Graph



Suspected List

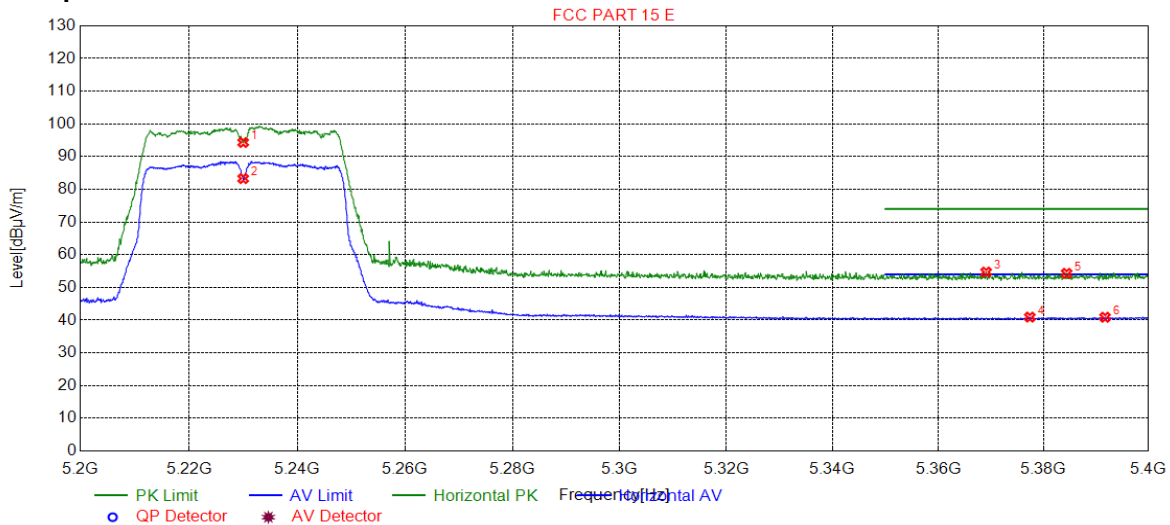
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5125.63	53.80	15.31	74.00	20.20	270	111	Vertical
2	5132.17	40.25	15.37	54.00	13.75	189	320	Vertical
3	5142.62	56.46	15.46	74.00	17.54	261	161	Vertical
4	5148.26	41.57	15.51	54.00	12.43	224	325	Vertical
5	5190.00	91.39	15.58	0.00	-91.39	165	111	Vertical
6	5190.00	80.15	15.58	0.00	-80.15	250	111	Vertical

Final Data List



4.11.1.67 802.11AC40_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	94.34	15.51	0.00	-94.34	246	194	Horizontal
2	5230.00	83.29	15.51	0.00	-83.29	216	194	Horizontal
3	5369.08	54.72	16.06	74.00	19.28	174	324	Horizontal
4	5377.38	40.94	16.11	54.00	13.06	132	344	Horizontal
5	5384.39	54.33	16.15	74.00	19.67	118	84	Horizontal
6	5391.69	40.91	16.20	54.00	13.09	196	98	Horizontal

Final Data List



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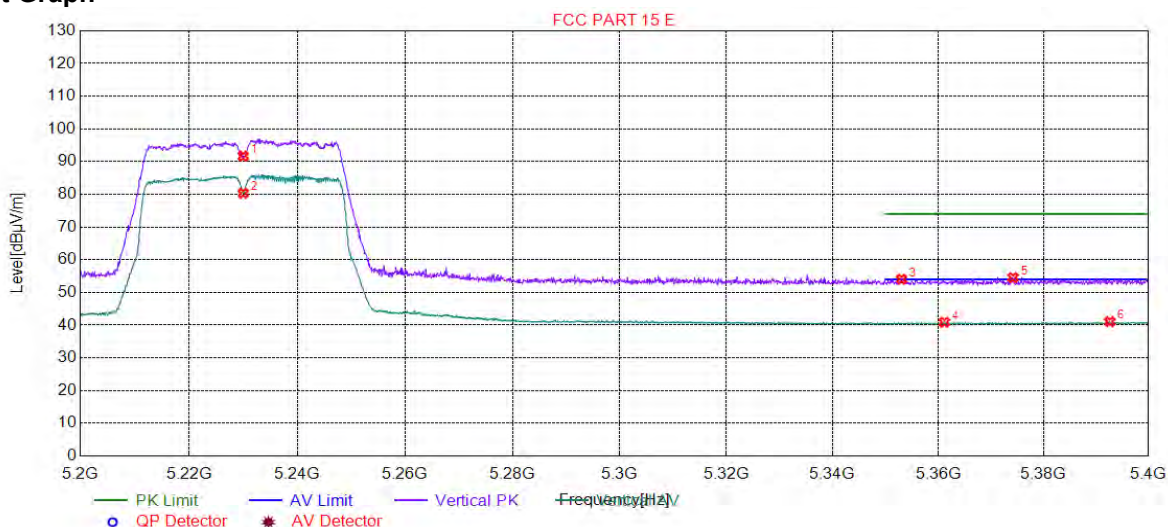
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4.11.1.68 802.11AC40_Channel 46

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	91.69	15.51	0.00	-91.69	204	125	Vertical
2	5230.00	80.34	15.51	0.00	-80.34	181	118	Vertical
3	5353.07	54.06	15.96	74.00	19.94	237	284	Vertical
4	5361.18	40.89	16.01	54.00	13.11	221	339	Vertical
5	5374.18	54.58	16.09	74.00	19.42	195	360	Vertical
6	5392.59	41.07	16.20	54.00	12.93	186	104	Vertical

Final Data List

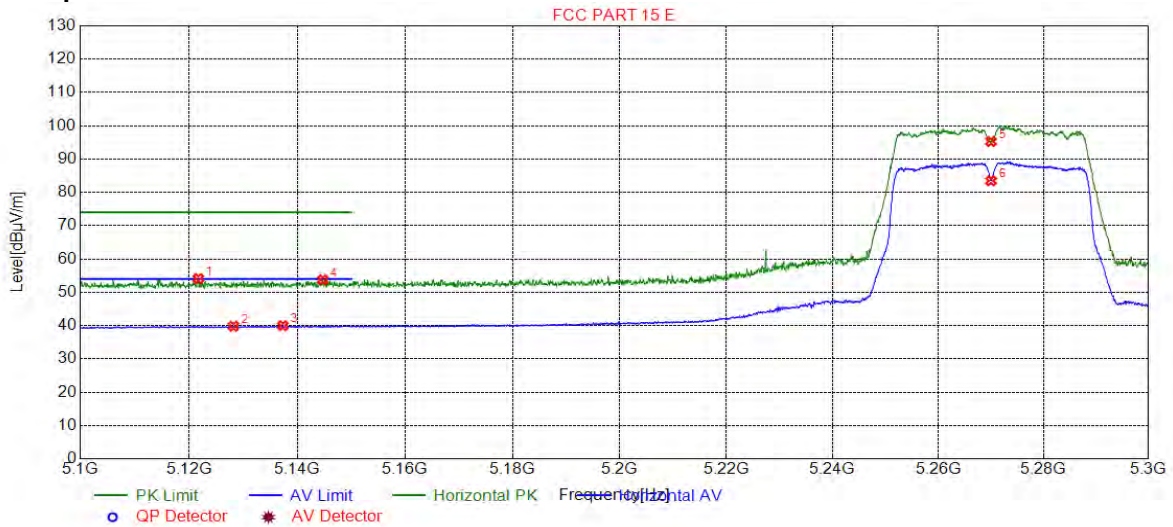


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4.11.1.69 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5121.71	54.16	15.28	74.00	19.84	128	168	Horizontal
2	5128.21	39.85	15.33	54.00	14.15	119	223	Horizontal
3	5137.31	39.99	15.41	54.00	14.01	157	271	Horizontal
4	5144.72	53.77	15.47	74.00	20.23	100	161	Horizontal
5	5270.00	95.28	15.56	0.00	-95.28	189	196	Horizontal
6	5270.00	83.48	15.56	0.00	-83.48	119	85	Horizontal

Final Data List



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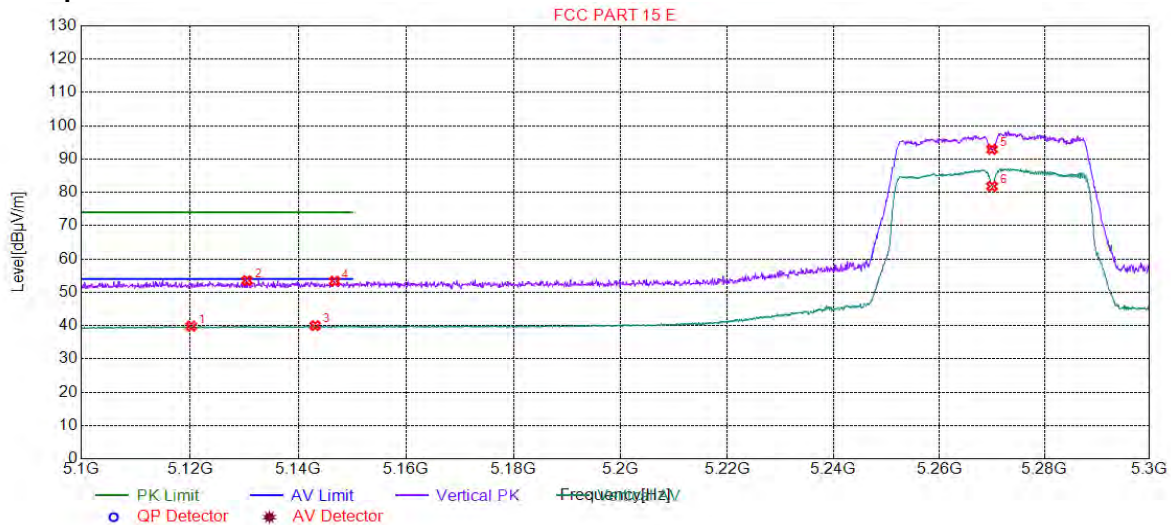
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4.11.1.70 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.21	39.87	15.26	54.00	14.13	161	352	Vertical
2	5130.51	53.53	15.35	74.00	20.47	157	248	Vertical
3	5143.12	40.01	15.46	54.00	13.99	159	22	Vertical
4	5146.72	53.35	15.49	74.00	20.65	217	180	Vertical
5	5270.00	92.93	15.56	0.00	-92.93	245	124	Vertical
6	5270.00	81.82	15.56	0.00	-81.82	248	124	Vertical

Final Data List



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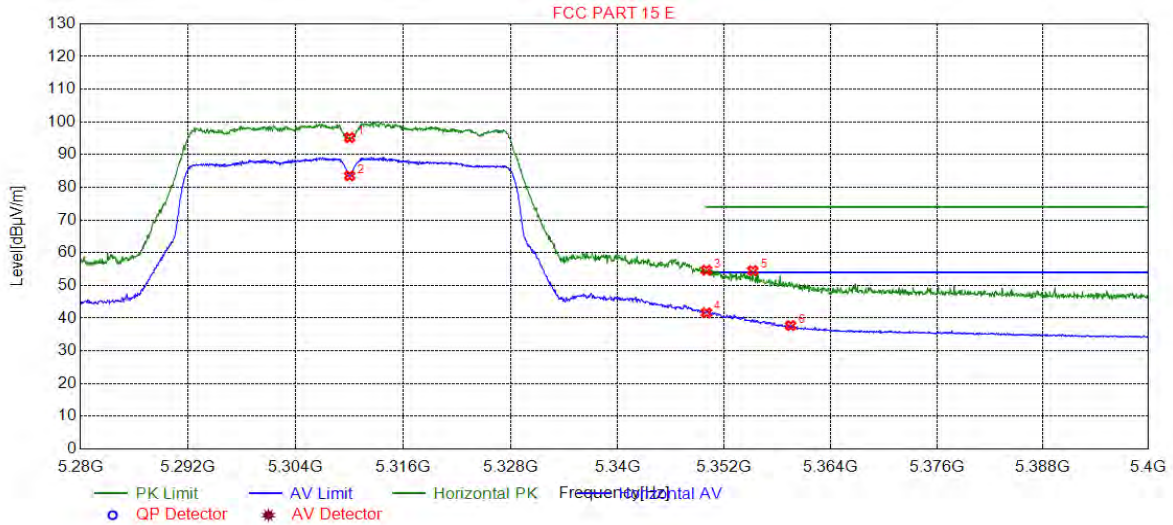
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4.11.1.71 802.11AC40_Channel 62

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	95.20	15.75	0.00	-95.20	125	79	Horizontal
2	5310.00	83.51	15.75	0.00	-83.51	209	79	Horizontal
3	5350.00	54.69	15.94	74.00	19.31	207	30	Horizontal
4	5350.00	41.64	15.94	54.00	12.36	234	72	Horizontal
5	5355.21	54.53	15.97	74.00	19.47	220	79	Horizontal
6	5359.47	37.74	16.00	54.00	16.26	249	86	Horizontal

Final Data List

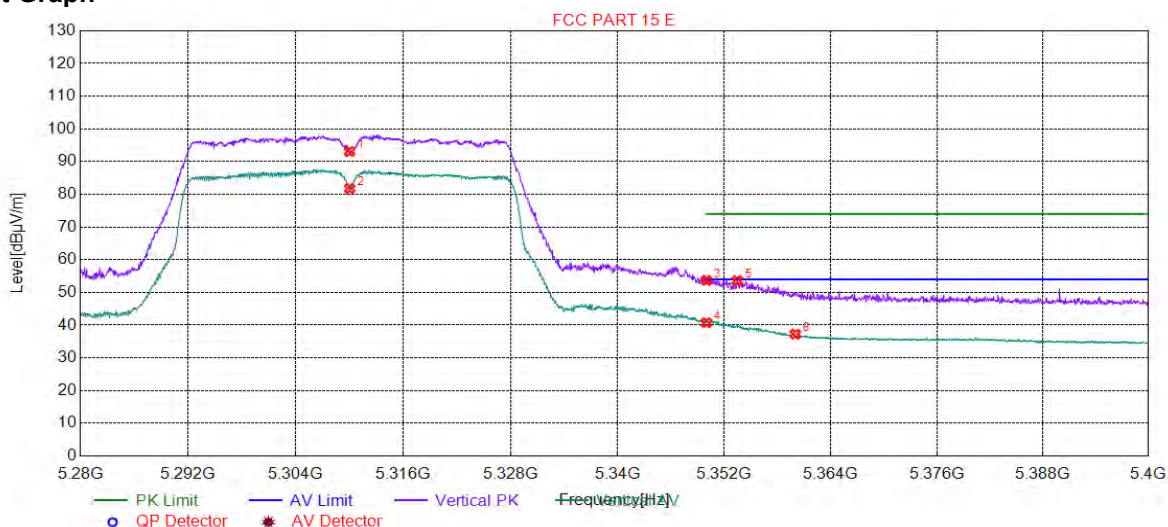


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4.11.1.72 802.11AC40_Channel 62

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	93.09	15.75	0.00	-93.09	151	118	Vertical
2	5310.00	81.77	15.75	0.00	-81.77	165	118	Vertical
3	5350.00	53.70	15.94	74.00	20.30	299	324	Vertical
4	5350.00	40.76	15.94	54.00	13.24	209	331	Vertical
5	5353.47	53.62	15.96	74.00	20.38	209	324	Vertical
6	5360.02	37.27	16.00	54.00	16.73	264	318	Vertical

Final Data List

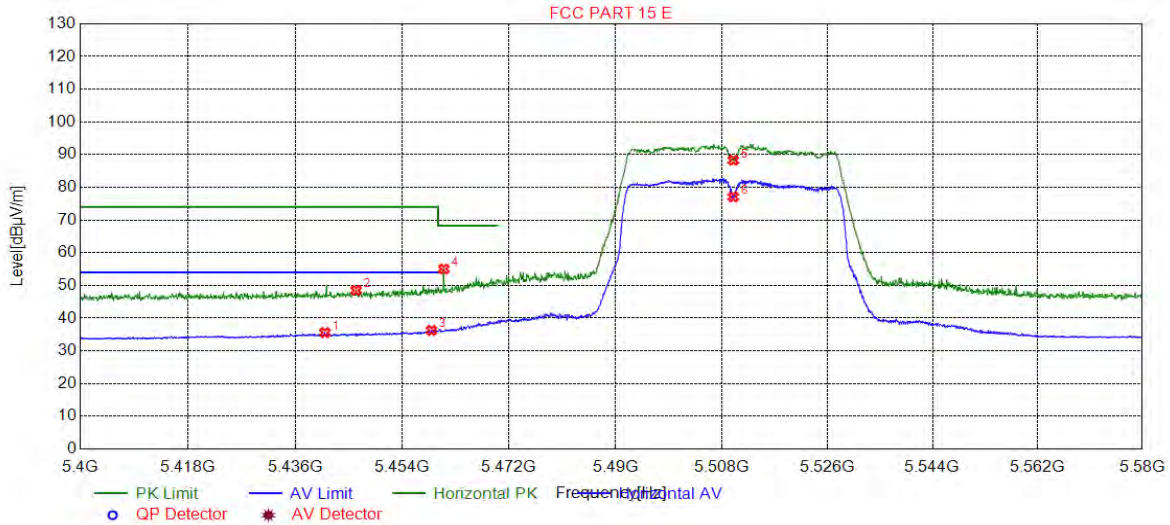


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4.11.1.73 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5440.97	35.61	16.25	54.00	18.39	129	345	Horizontal
2	5446.19	48.55	16.25	74.00	25.45	113	2	Horizontal
3	5458.88	36.26	16.25	54.00	17.74	179	345	Horizontal
4	5460.96	55.03	16.25	68.30	13.27	126	167	Horizontal
5	5510.00	88.28	16.28	0.00	-88.28	180	2	Horizontal
6	5510.00	77.08	16.28	0.00	-77.08	236	2	Horizontal

Final Data List

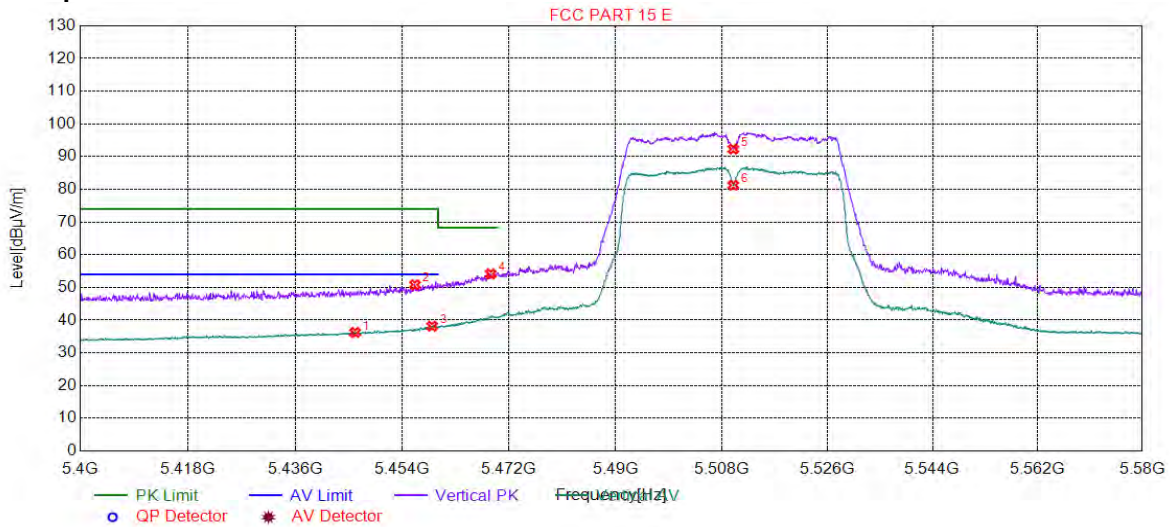


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4.11.1.74 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.01	36.25	16.25	54.00	17.75	165	336	Vertical
2	5456.09	50.84	16.25	74.00	23.16	274	343	Vertical
3	5458.97	38.18	16.25	54.00	15.82	253	316	Vertical
4	5468.88	54.17	16.25	68.30	14.13	280	309	Vertical
5	5510.00	92.31	16.28	0.00	-92.31	247	316	Vertical
6	5510.00	81.26	16.28	0.00	-81.26	172	360	Vertical

Final Data List

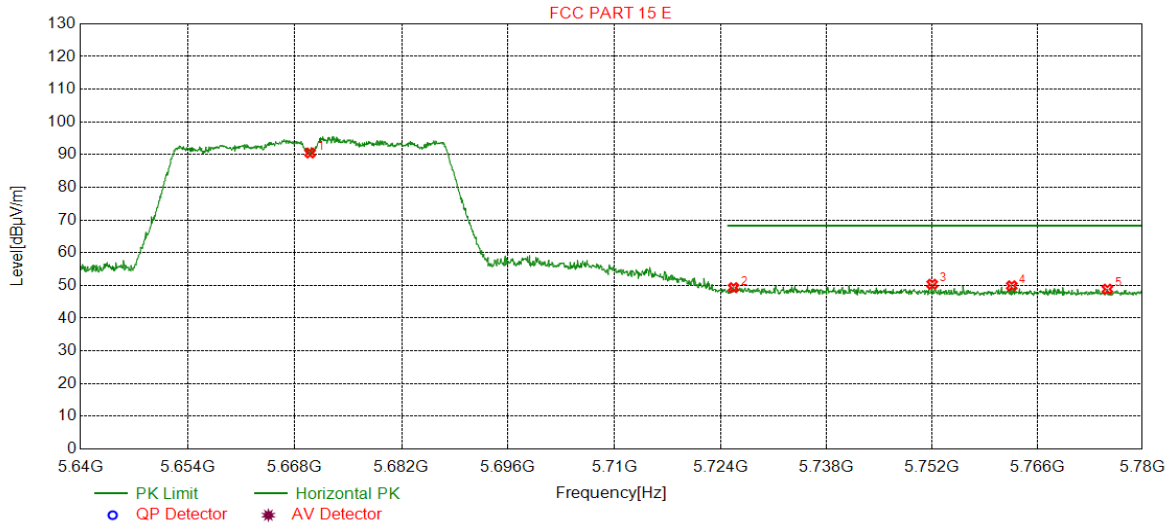


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4.11.1.75 802.11AC40_Channel 134

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	90.52	16.64	0.00	-90.52	233	189	Horizontal
2	5725.72	49.34	16.96	68.30	18.96	120	162	Horizontal
3	5752.05	50.40	17.12	68.30	17.90	215	184	Horizontal
4	5762.63	49.91	17.14	68.30	18.39	131	175	Horizontal
5	5775.37	48.88	17.16	68.30	19.42	225	326	Horizontal

Final Data List



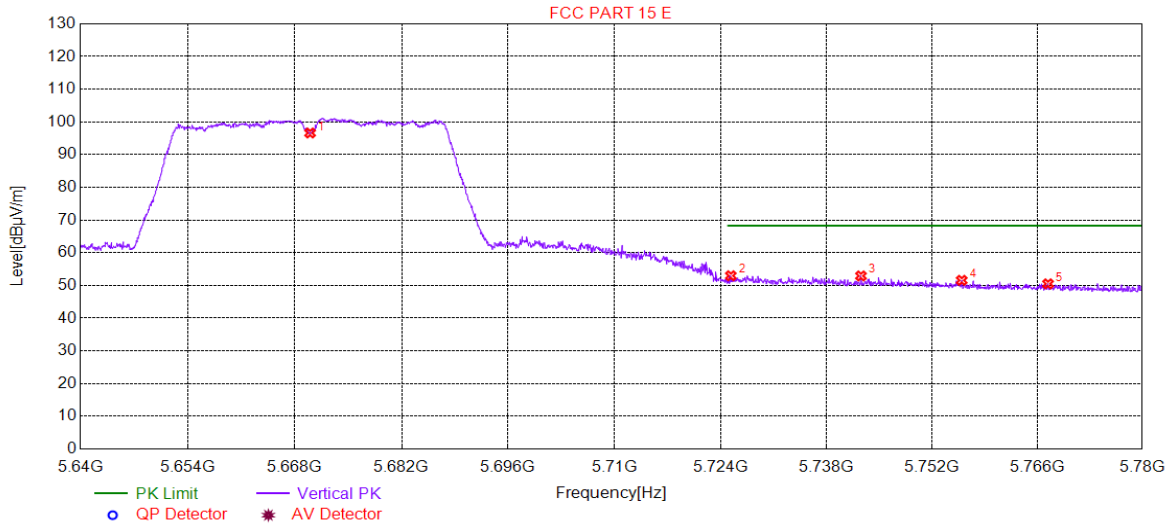
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4.11.1.76 802.11AC40_Channel 134

Test Graph



Suspected List

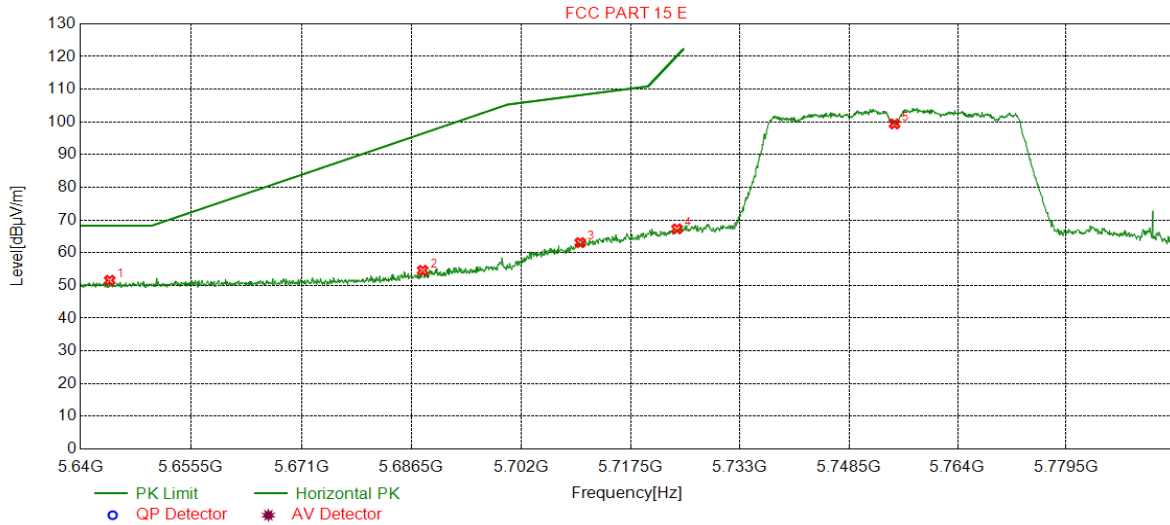
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	96.62	16.64	0.00	-96.62	248	320	Vertical
2	5725.37	52.98	16.96	68.30	15.32	169	329	Vertical
3	5742.60	52.93	17.07	68.30	15.37	187	315	Vertical
4	5755.97	51.58	17.13	68.30	16.72	174	315	Vertical
5	5767.46	50.51	17.14	68.30	17.79	221	292	Vertical

Final Data List



4.11.1.77 802.11AC40_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	5644.10	51.58	16.54	68.30	16.72	193	208	Horizontal
2	5688.07	54.64	16.74	96.47	41.83	130	286	Horizontal
3	5710.32	63.11	16.87	108.19	45.08	125	286	Horizontal
4	5724.05	67.30	16.95	120.14	52.84	100	286	Horizontal
5	5755.00	99.39	17.13	0.00	-99.39	161	286	Horizontal

Final Data List

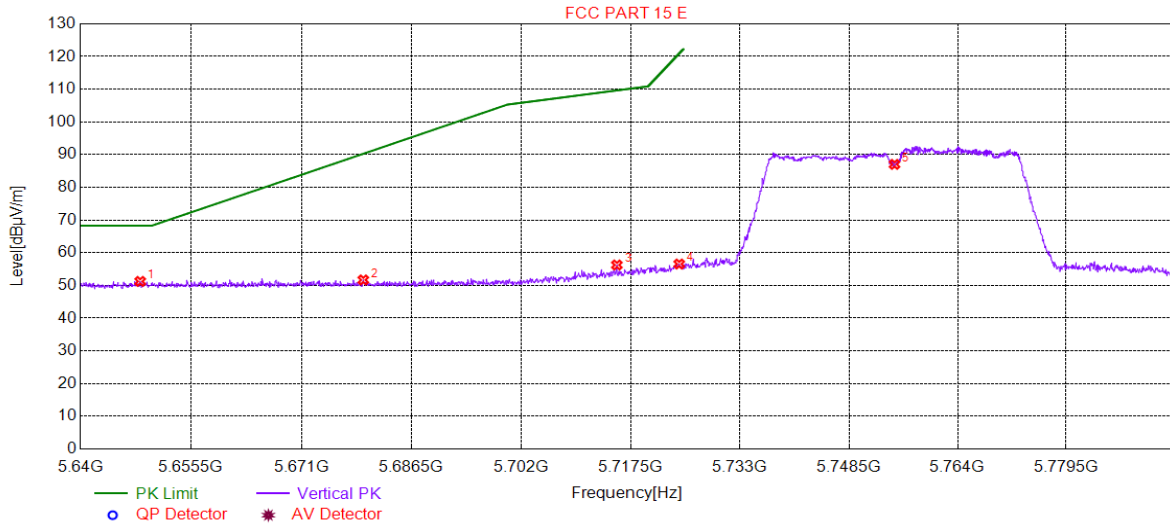


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4.11.1.78 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5648.37	51.25	16.53	68.30	17.05	222	106	Vertical
2	5679.69	51.70	16.69	90.28	38.58	229	130	Vertical
3	5715.52	56.27	16.90	109.65	53.38	214	258	Vertical
4	5724.36	56.57	16.96	120.85	64.28	287	198	Vertical
5	5755.00	87.03	17.13	0.00	-87.03	246	143	Vertical

Final Data List



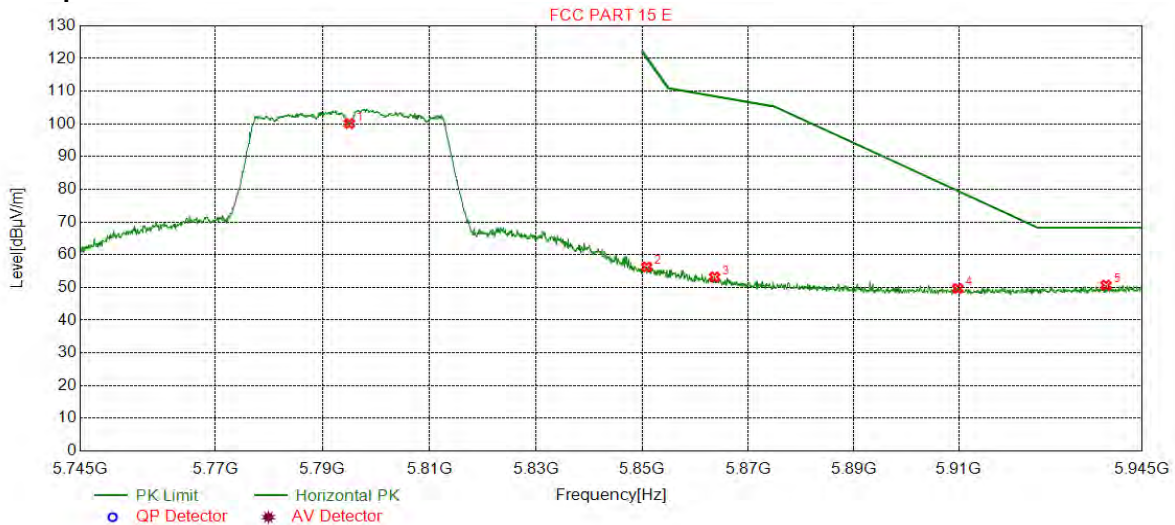
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4.11.1.79 802.11AC40_Channel 159

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	100.12	17.18	0.00	-100.12	196	282	Horizontal
2	5850.85	56.28	17.26	120.36	64.08	169	292	Horizontal
3	5863.65	53.21	17.22	108.48	55.27	226	282	Horizontal
4	5909.78	49.71	17.26	79.56	29.85	222	116	Horizontal
5	5938.09	50.69	17.70	68.30	17.61	105	273	Horizontal

Final Data List



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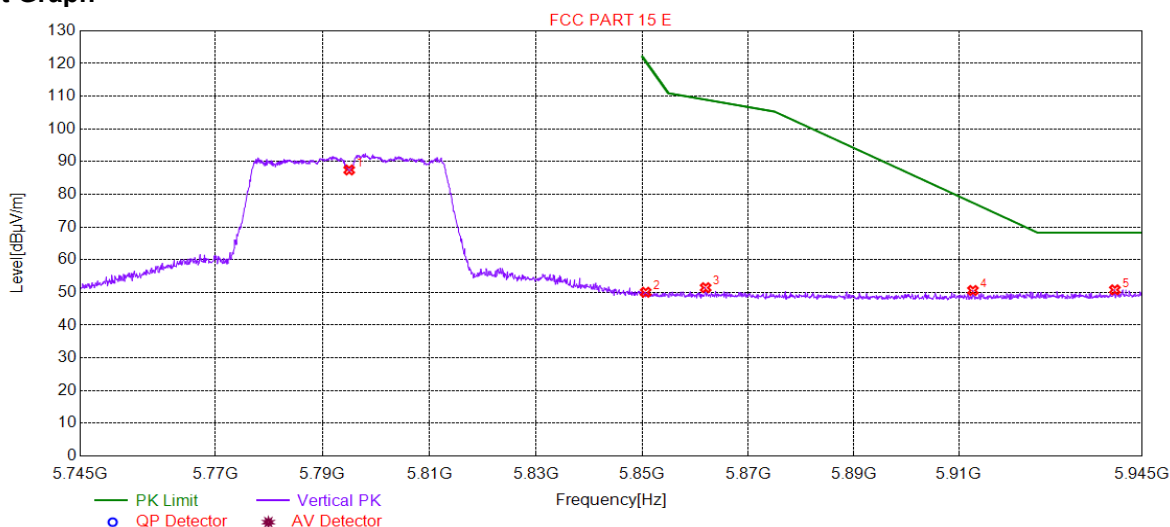
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4.11.1.80 802.11AC40_Channel 159

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	87.46	17.18	0.00	-87.46	191	147	Vertical
2	5850.65	50.07	17.26	120.81	70.74	191	20	Vertical
3	5861.95	51.47	17.22	108.95	57.48	285	299	Vertical
4	5912.68	50.62	17.31	77.41	26.79	283	285	Vertical
5	5939.79	50.82	17.72	68.30	17.48	258	166	Vertical

Final Data List

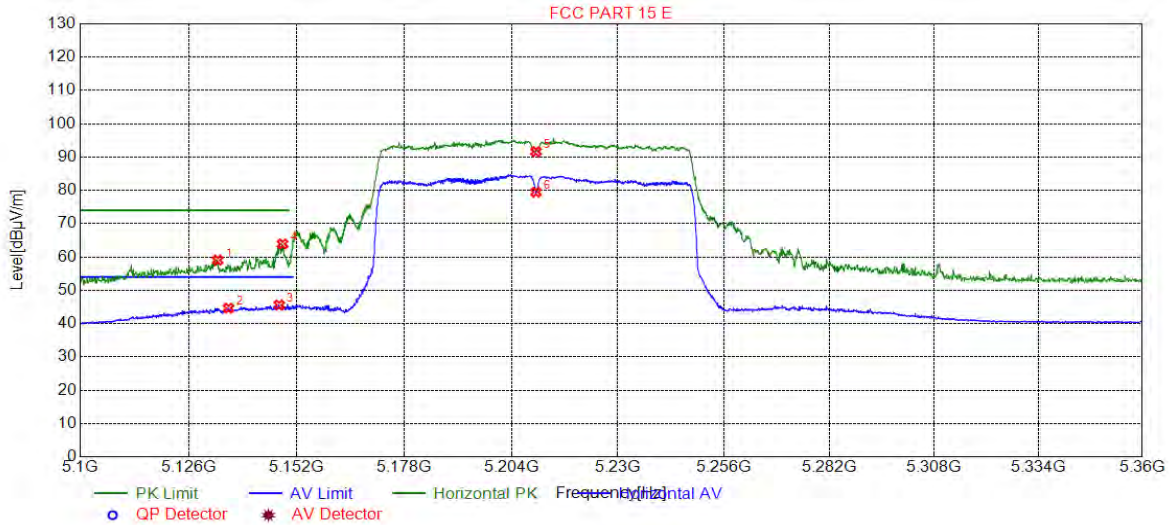


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4.11.1.81 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5132.90	59.07	15.37	74.00	14.93	145	200	Horizontal
2	5135.50	44.66	15.40	54.00	9.34	205	200	Horizontal
3	5147.73	45.60	15.50	54.00	8.40	182	193	Horizontal
4	5148.51	63.92	15.51	74.00	10.08	199	200	Horizontal
5	5210.00	91.64	15.56	0.00	-91.64	193	78	Horizontal
6	5210.00	79.45	15.56	0.00	-79.45	118	78	Horizontal

Final Data List

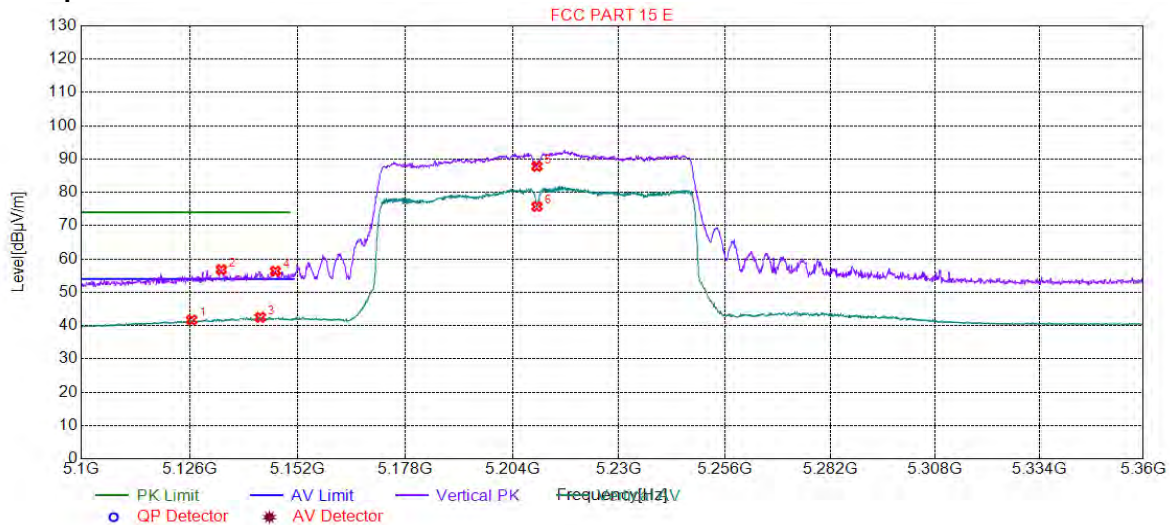


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4.11.1.82 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5126.40	41.70	15.32	54.00	12.30	189	320	Vertical
2	5133.55	56.79	15.38	74.00	17.21	245	327	Vertical
3	5142.92	42.50	15.46	54.00	11.50	227	320	Vertical
4	5146.56	56.40	15.49	74.00	17.60	101	327	Vertical
5	5210.00	87.80	15.56	0.00	-87.80	212	119	Vertical
6	5210.00	75.76	15.56	0.00	-75.76	115	126	Vertical

Final Data List

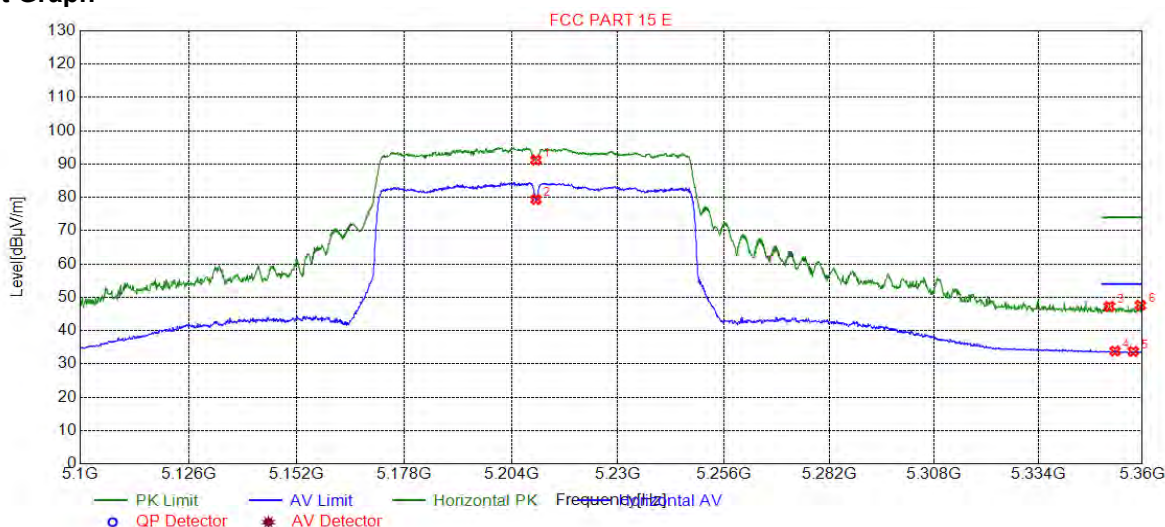


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4.11.1.83 802.11AC80_Channel 42

Test Graph



Suspected List

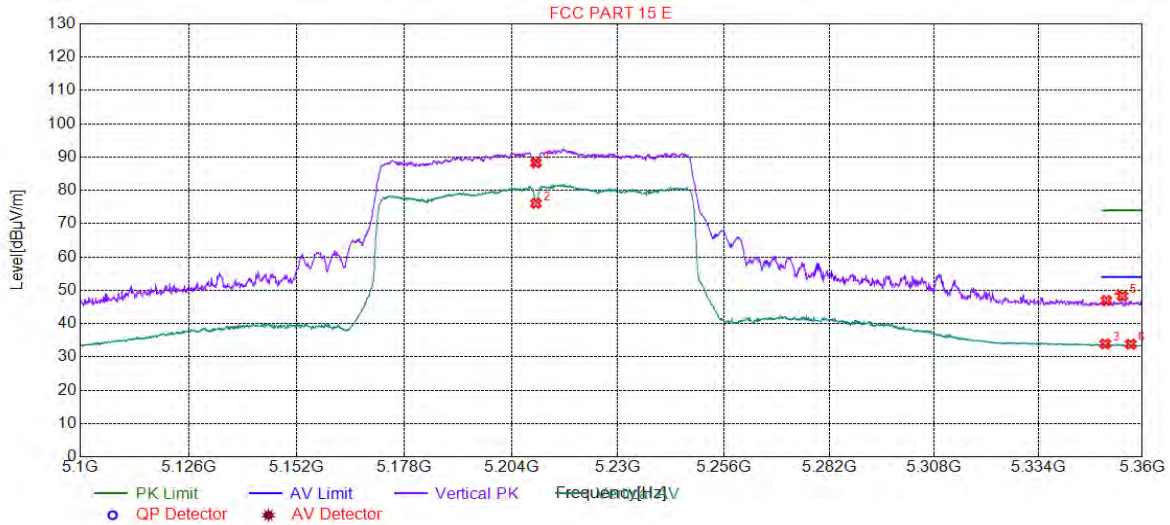
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	91.23	15.56	0.00	-91.23	273	187	Horizontal
2	5210.00	79.39	15.56	0.00	-79.39	295	194	Horizontal
3	5351.80	47.26	15.95	74.00	26.74	223	50	Horizontal
4	5353.23	33.89	15.96	54.00	20.11	168	37	Horizontal
5	5357.78	33.75	15.99	54.00	20.25	278	78	Horizontal
6	5359.60	47.60	16.00	74.00	26.40	215	78	Horizontal

Final Data List



4.11.1.84 802.11AC80_Channel 42

Test Graph



Suspected List

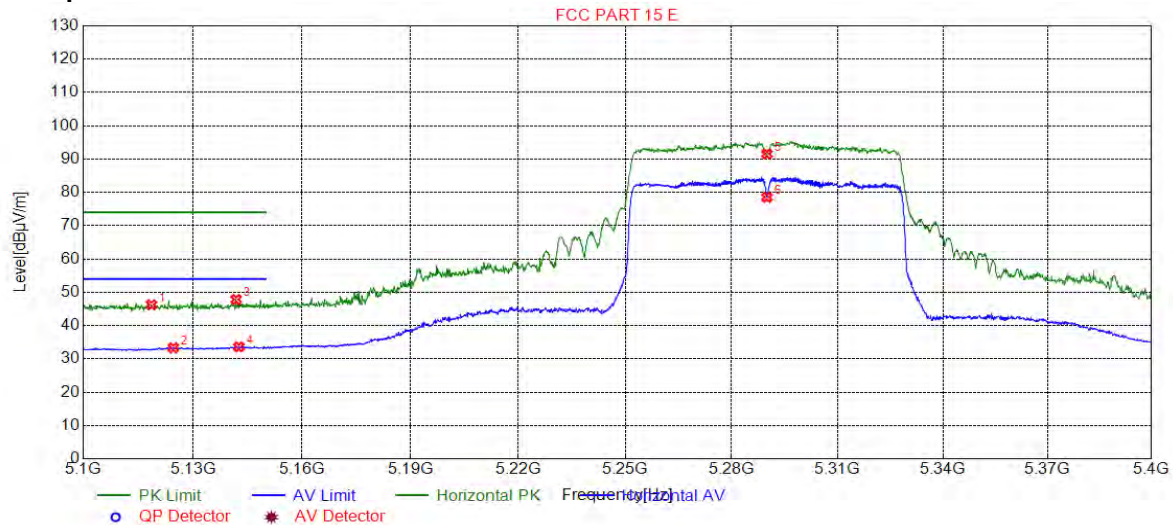
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	88.28	15.56	0.00	-88.28	171	119	Vertical
2	5210.00	76.12	15.56	0.00	-76.12	236	112	Vertical
3	5350.76	33.93	15.94	54.00	20.07	286	16	Vertical
4	5351.02	46.94	15.95	74.00	27.06	270	278	Vertical
5	5355.05	48.31	15.97	74.00	25.69	281	16	Vertical
6	5357.13	33.84	15.98	54.00	20.16	244	16	Vertical

Final Data List



4.11.1.85 802.11AC80_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	5118.60	46.30	15.25	74.00	27.70	247	344	Horizontal
2	5124.61	33.36	15.30	54.00	20.64	112	344	Horizontal
3	5141.87	47.87	15.45	74.00	26.13	238	202	Horizontal
4	5142.62	33.65	15.46	54.00	20.35	230	209	Horizontal
5	5290.00	91.55	15.65	0.00	-91.55	138	78	Horizontal
6	5290.00	78.53	15.65	0.00	-78.53	151	188	Horizontal

Final Data List

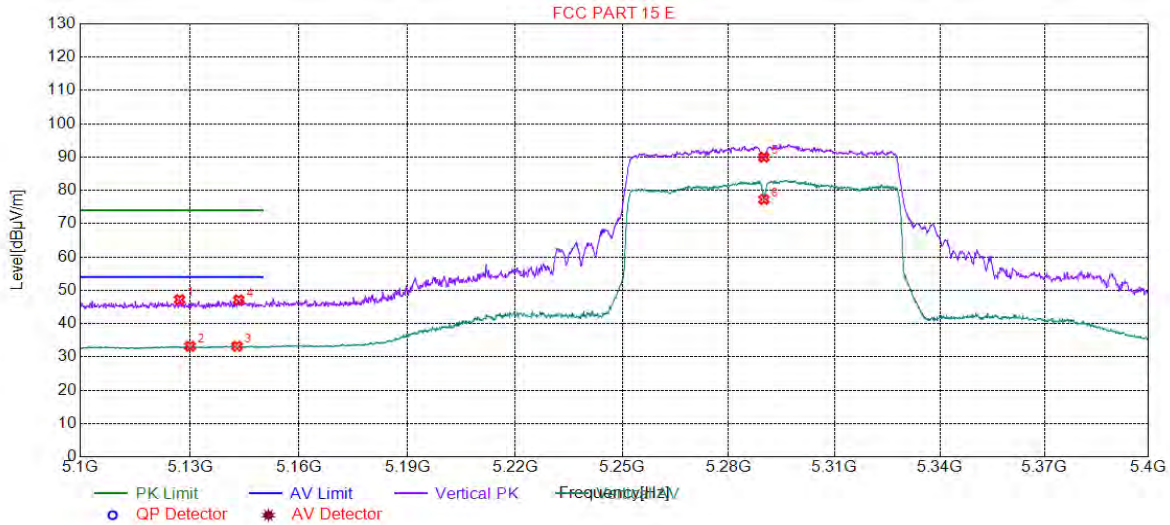


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4.11.1.86 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5127.16	47.23	15.32	74.00	26.77	170	70	Vertical
2	5130.01	33.22	15.35	54.00	20.78	118	213	Vertical
3	5142.92	33.23	15.46	54.00	20.77	242	296	Vertical
4	5143.37	47.15	15.46	74.00	26.85	231	172	Vertical
5	5290.00	89.98	15.65	0.00	-89.98	228	126	Vertical
6	5290.00	77.29	15.65	0.00	-77.29	208	118	Vertical

Final Data List



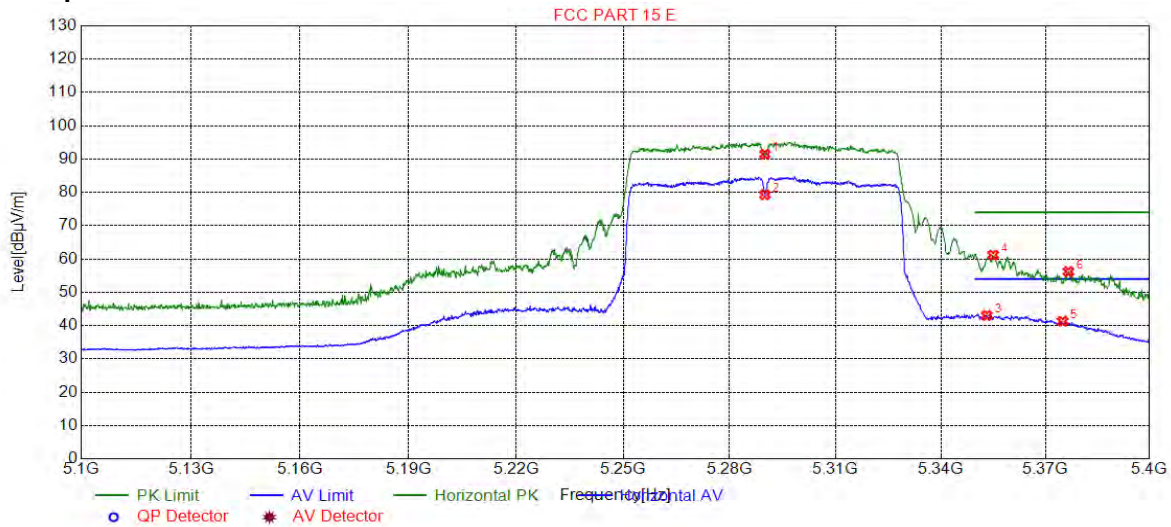
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4.11.1.87 802.11AC80_Channel 58

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	91.45	15.65	0.00	-91.45	170	78	Horizontal
2	5290.00	79.31	15.65	0.00	-79.31	118	78	Horizontal
3	5353.17	43.08	15.96	54.00	10.92	242	78	Horizontal
4	5354.97	61.19	15.97	74.00	12.81	231	78	Horizontal
5	5374.93	41.33	16.09	54.00	12.67	228	85	Horizontal
6	5376.58	56.26	16.10	74.00	17.74	208	78	Horizontal

Final Data List

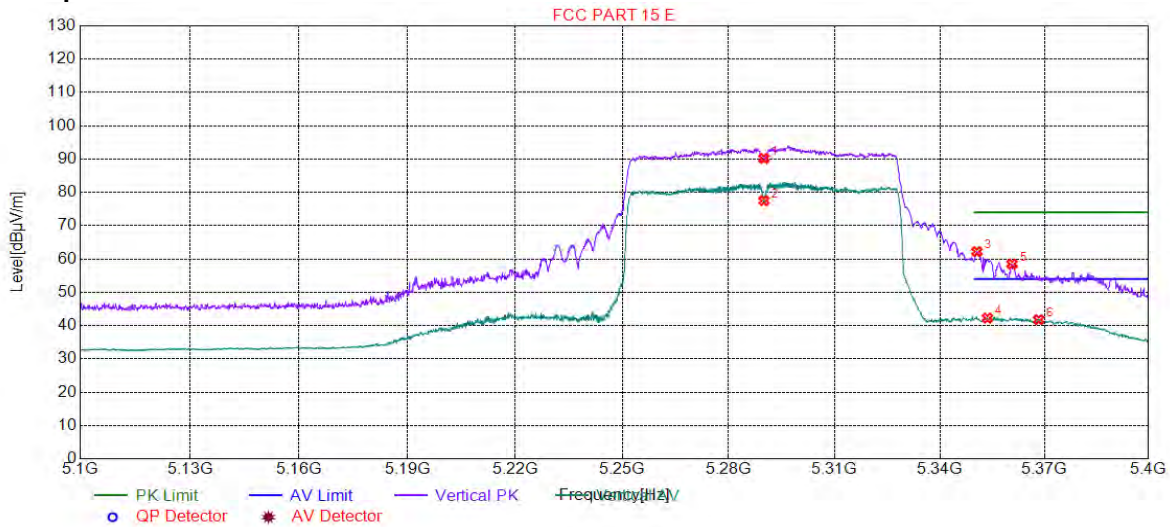


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4.11.1.88 802.11AC80_Channel 58

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	90.20	15.65	0.00	-90.20	227	109	Vertical
2	5290.00	77.52	15.65	0.00	-77.52	199	116	Vertical
3	5350.62	62.24	15.94	74.00	11.76	153	319	Vertical
4	5353.62	42.27	15.96	54.00	11.73	204	360	Vertical
5	5360.68	58.50	16.01	74.00	15.50	165	15	Vertical
6	5368.33	41.83	16.05	54.00	12.17	201	353	Vertical

Final Data List



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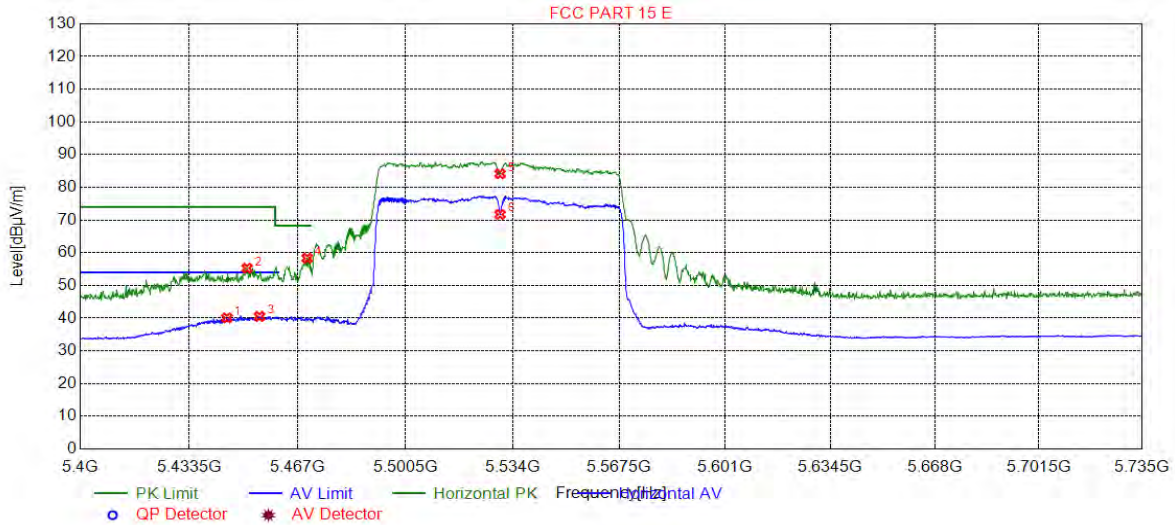
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4.11.1.89 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5445.08	40.09	16.25	54.00	13.91	237	344	Horizontal
2	5451.28	55.28	16.25	74.00	18.72	184	344	Horizontal
3	5455.13	40.54	16.25	54.00	13.46	152	344	Horizontal
4	5469.88	58.34	16.25	68.30	9.96	103	0	Horizontal
5	5530.00	84.13	16.35	0.00	-84.13	171	344	Horizontal
6	5530.00	71.70	16.35	0.00	-71.70	246	344	Horizontal

Final Data List



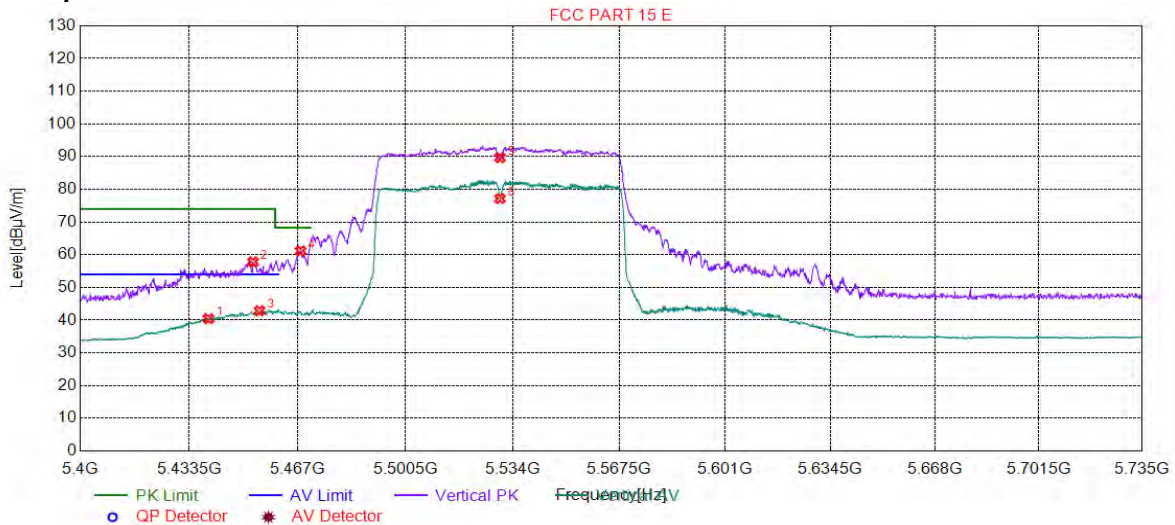
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4.11.1.90 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5439.38	40.47	16.25	54.00	13.53	172	16	Vertical
2	5453.12	57.84	16.25	74.00	16.16	207	16	Vertical
3	5455.13	42.89	16.25	54.00	11.11	237	322	Vertical
4	5467.87	61.19	16.25	68.30	7.11	175	16	Vertical
5	5530.00	89.69	16.35	0.00	-89.69	225	315	Vertical
6	5530.00	77.19	16.35	0.00	-77.19	280	329	Vertical

Final Data List



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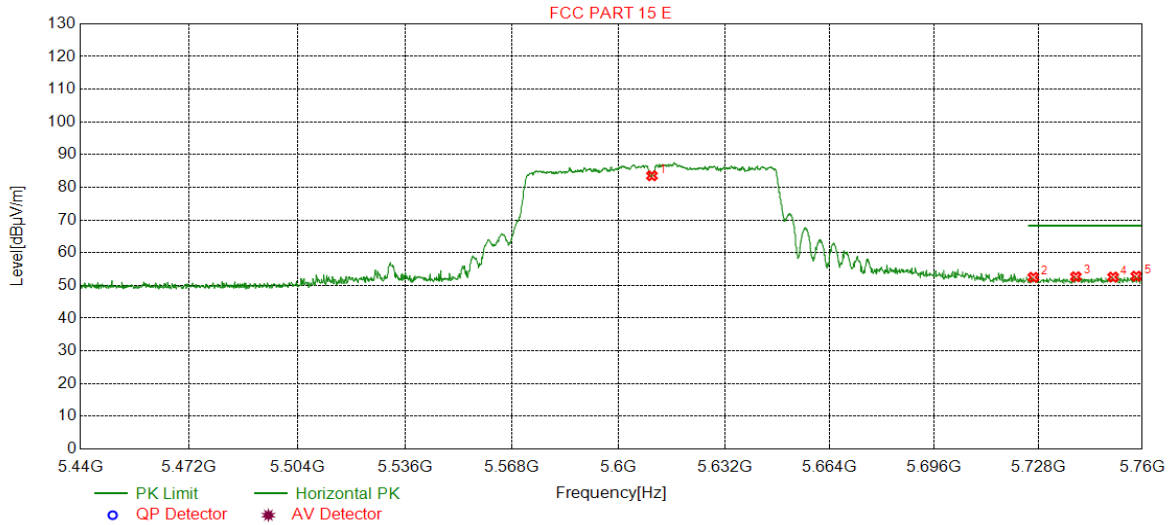
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4.11.1.91 802.11AC80_Channel 122

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	83.54	16.58	0.00	-83.54	151	189	Horizontal
2	5726.38	52.49	16.97	68.30	15.81	203	157	Horizontal
3	5739.50	52.68	17.05	68.30	15.62	186	166	Horizontal
4	5751.03	52.57	17.12	68.30	15.73	217	116	Horizontal
5	5758.23	52.84	17.13	68.30	15.46	102	259	Horizontal

Final Data List



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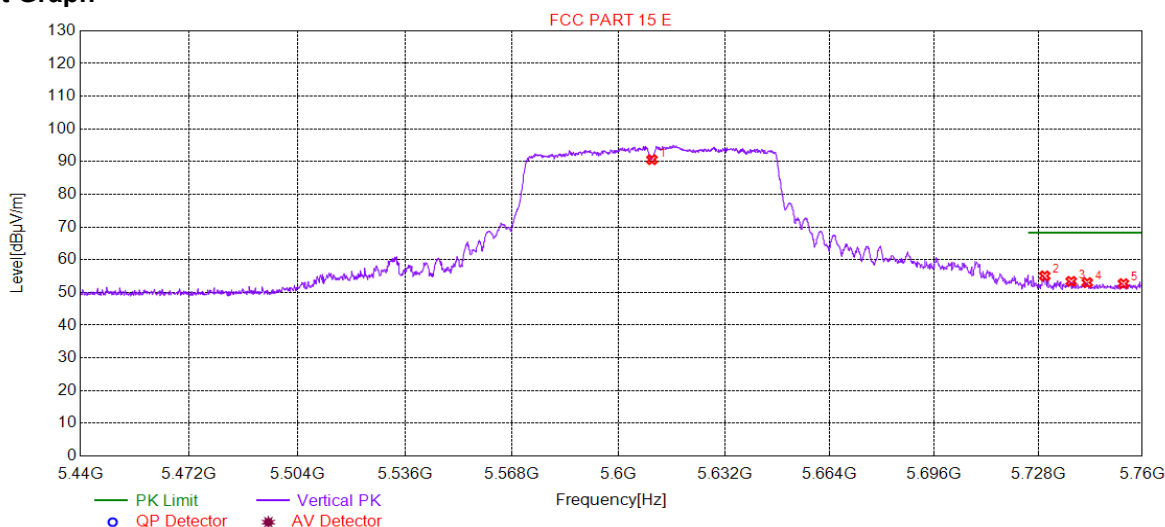
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4.11.1.92 802.11AC80_Channel 122

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	90.62	16.58	0.00	-90.62	179	314	Vertical
2	5729.90	55.07	16.99	68.30	13.23	178	16	Vertical
3	5738.06	53.41	17.04	68.30	14.89	224	16	Vertical
4	5743.03	53.02	17.08	68.30	15.28	216	328	Vertical
5	5754.23	52.71	17.13	68.30	15.59	185	204	Vertical

Final Data List

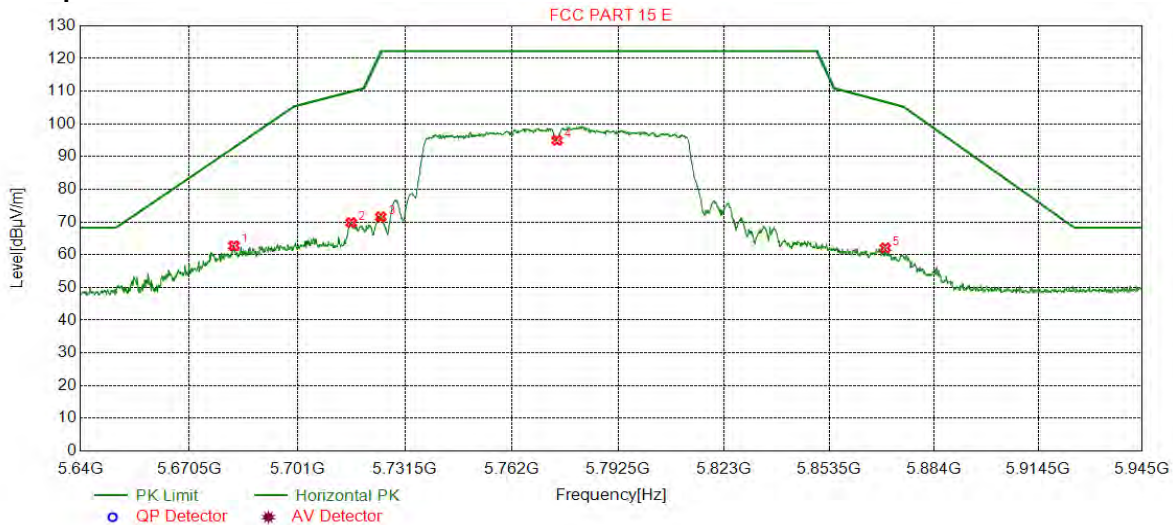


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4.11.1.93 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5683.17	62.75	16.71	92.85	30.10	221	295	Horizontal
2	5716.28	69.83	16.90	109.86	40.03	226	295	Horizontal
3	5724.67	71.59	16.96	121.57	49.98	109	308	Horizontal
4	5775.00	94.98	17.16	122.30	27.32	233	295	Horizontal
5	5869.77	62.08	17.20	106.76	44.68	249	308	Horizontal

Final Data List



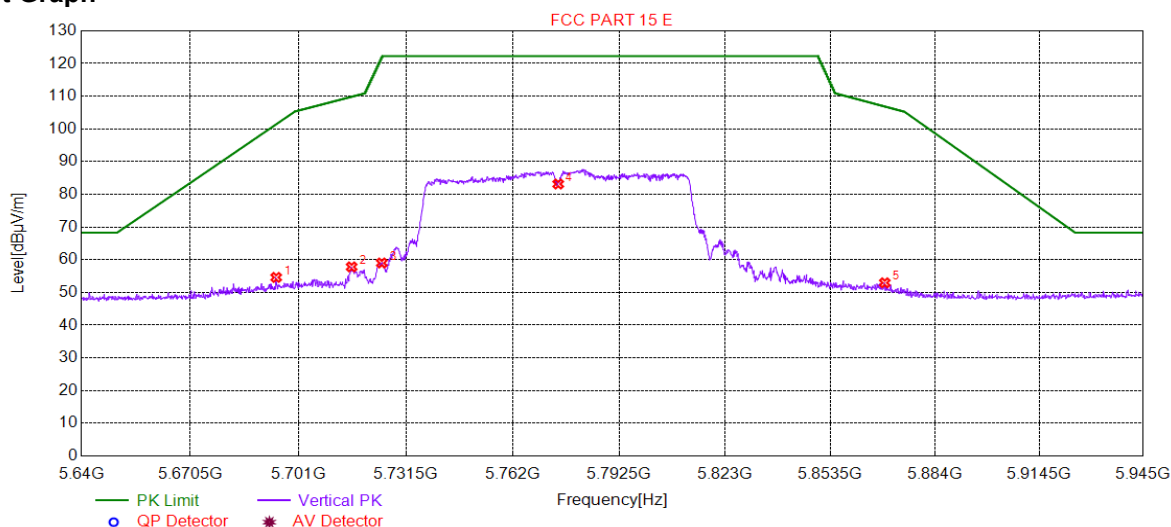
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4.11.1.94 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5694.77	54.61	16.77	101.43	46.82	257	313	Vertical
2	5716.13	57.83	16.90	109.82	51.99	217	303	Vertical
3	5724.67	59.01	16.96	121.57	62.56	185	222	Vertical
4	5775.00	83.16	17.16	122.30	39.14	210	213	Vertical
5	5869.32	52.96	17.20	106.89	53.93	244	208	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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4.12 Frequencies Stability

4.12.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.004369	5825.002322
V max(V)	5180.006574	5825.003182
V min(V)	5180.015686	5825.008992
Max. Deviation Frequency	0.015686	0.008992
Max. Frequency Error (ppm)	3.028178	1.543737

4.12.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.005007	5825.004242
5	5180.014568	5825.006813
15	5180.016431	5825.014283
25	5180.026046	5825.017913
35	5180.033603	5825.020536
45	5180.038990	5825.027154
50	5180.039142	5825.027787
Max. Deviation Frequency	0.039142	0.027787
Max. Frequency Error (ppm)	7.556327	4.770380



4.13 Dynamic Frequency Selection

4.13.1 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
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.		

4.13.2 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
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. 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. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

4.13.3 Response Requirements

Table 4: DFS Response Requirement Values

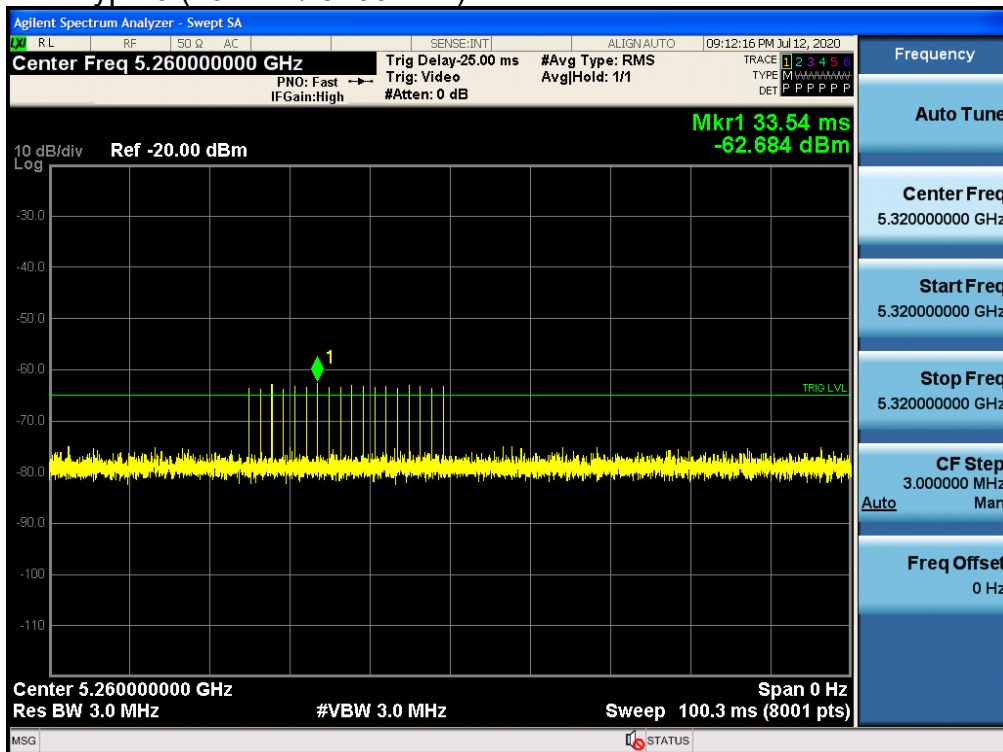
Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
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. 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. 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.	



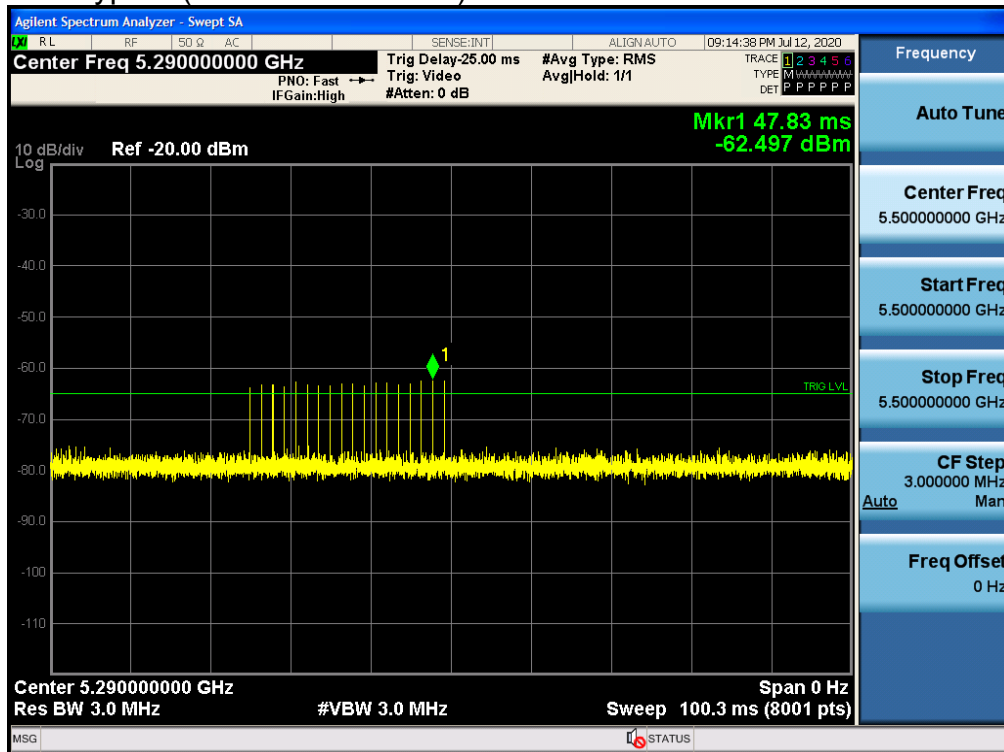
4.13.4 Test plots

4.13.4.1 Radar Waveform Calibration Result

Radar Type 0 (20MHz / 5260MHz)



Radar Type 0 (80MHz / 5290MHz)





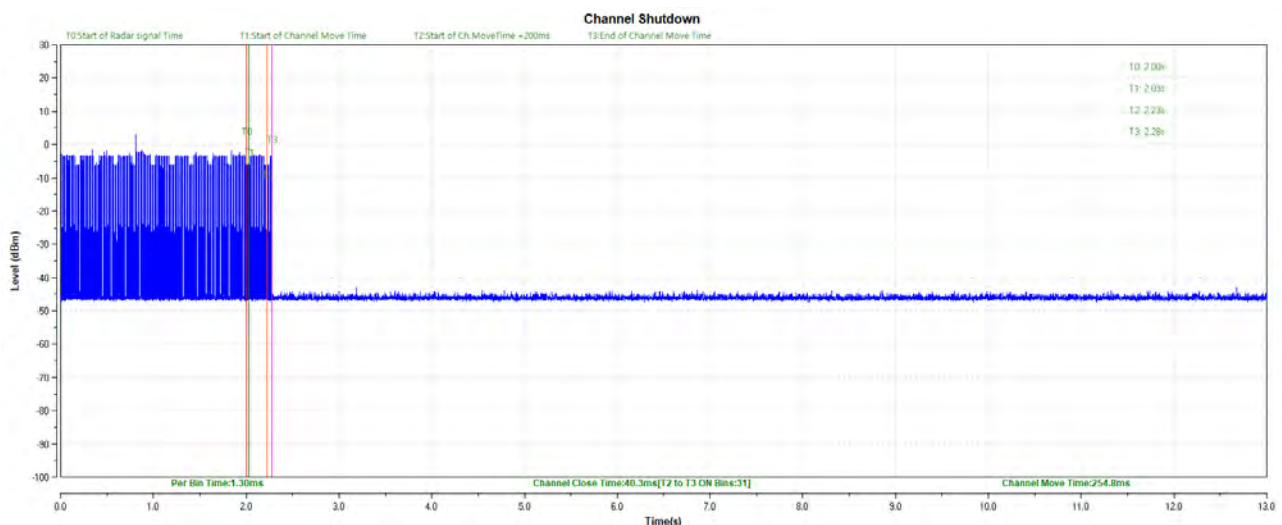
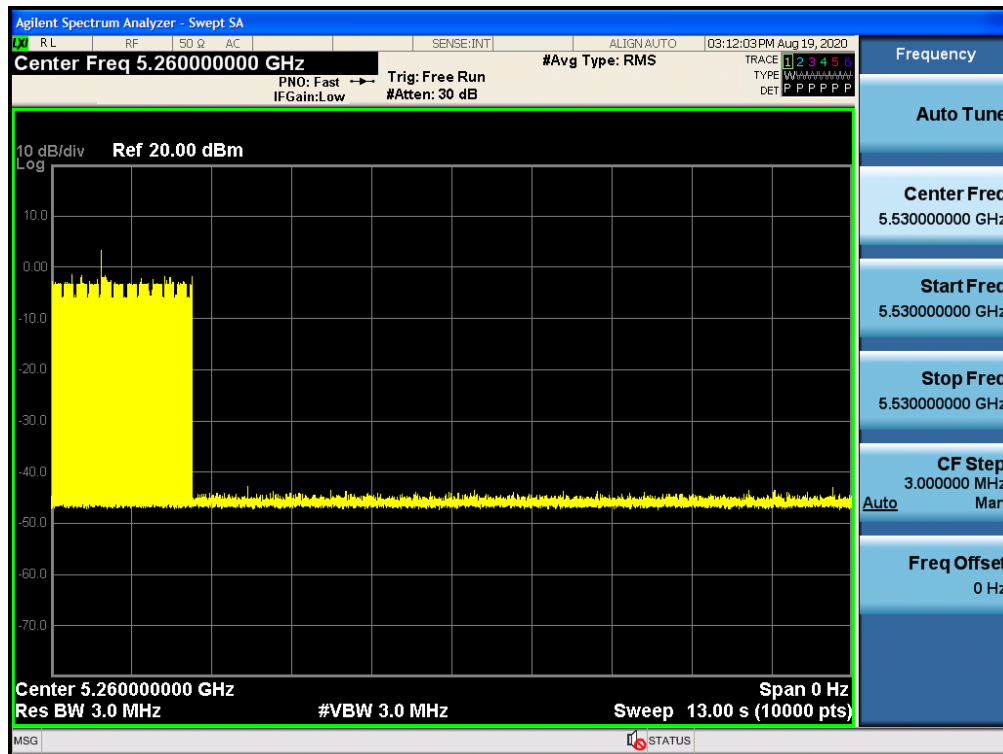
4.13.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
20MHz / 5260MHz	Channel Move Time	0.25s	<10s	Pass
	Channel Closing Transmission Time	40.3ms	<60ms	Pass
80MHz / 5290MHz	Channel Move Time	0.28s	<10s	Pass
	Channel Closing Transmission Time	41.6ms	<60ms	Pass

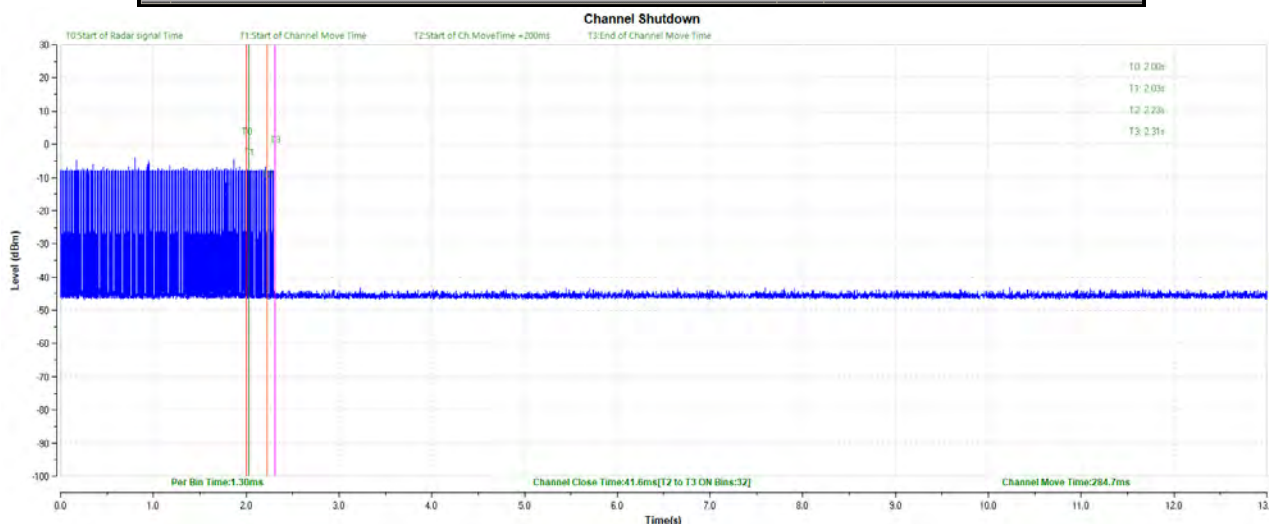
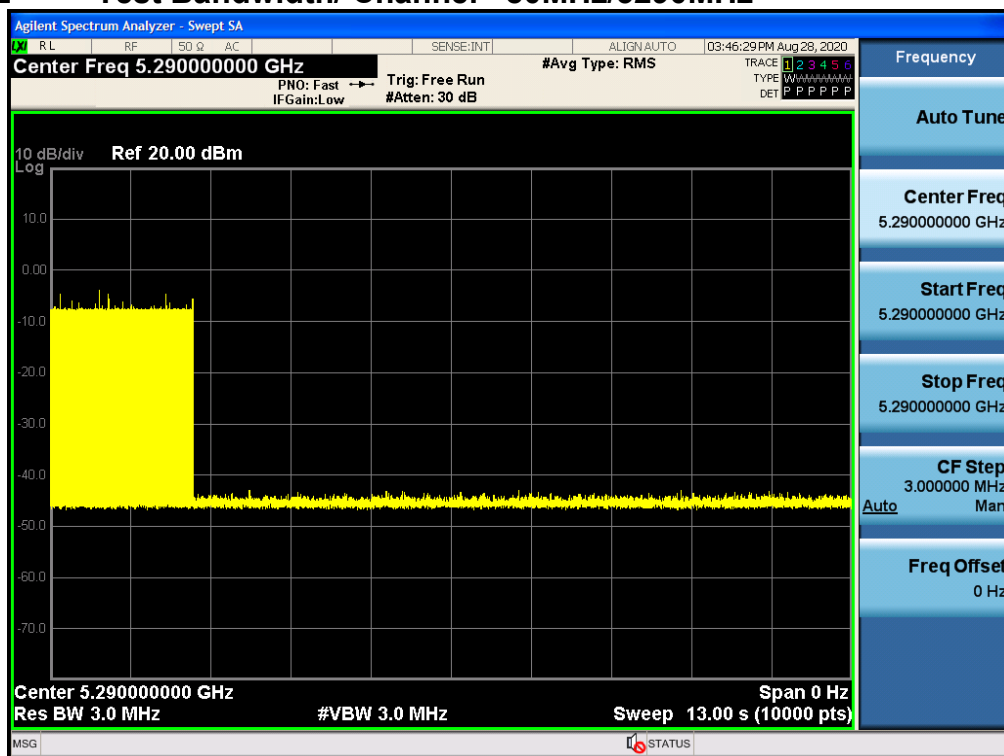


4.13.5.1 Test plots

4.13.5.1.1 Test Bandwidth/Channel= 20MHz / 5260MHz



4.13.5.1.2 Test Bandwidth/ Channel =80MHz/5290MHz





No-occupancy Period:





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

Lab A:

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

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (Above 18GHz)





6 Equipment List

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	2019/10/27	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-WRT3200AC M IC ID:3839A-WRT3200AC M	N/A	N/A

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-05	2020-04-12	2021-04-11
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR





RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2020-04-15	2021-04-14
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-05	2020-04-12	2021-04-11
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-11-28	2020-11-28
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR





7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/80017.

The End

