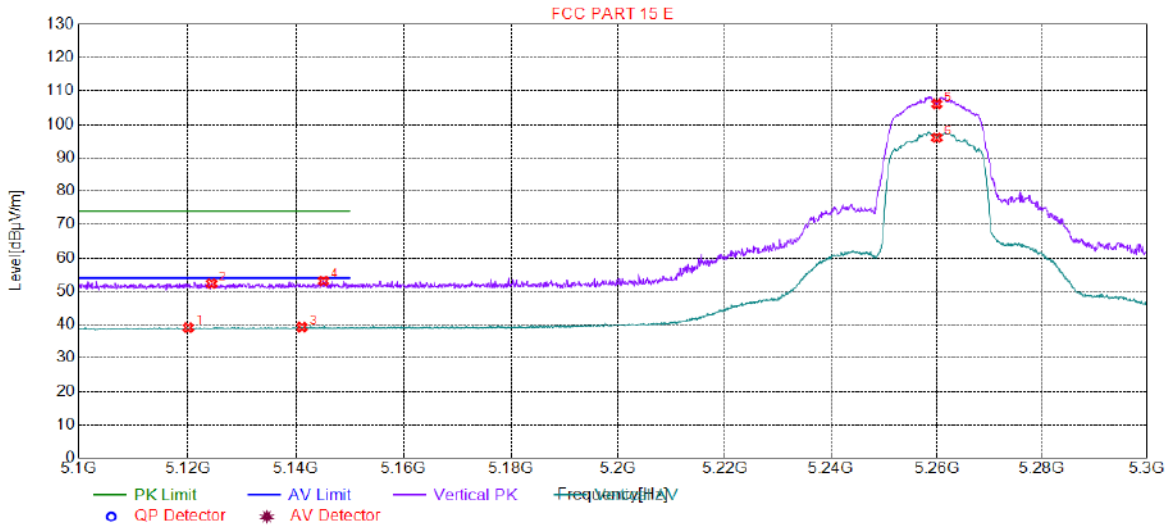


4.10.1.55 802.11AC20_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.11	39.14	15.26	54.00	14.86	150	290	Vertical
2	5124.41	52.32	15.30	74.00	21.68	150	1	Vertical
3	5141.12	39.30	15.44	54.00	14.70	150	297	Vertical
4	5145.12	53.11	15.48	74.00	20.89	150	262	Vertical
5	5260.00	106.16	15.51	0.00	-106.16	150	331	Vertical
6	5260.00	96.04	15.51	0.00	-96.04	150	344	Vertical

Final Data List

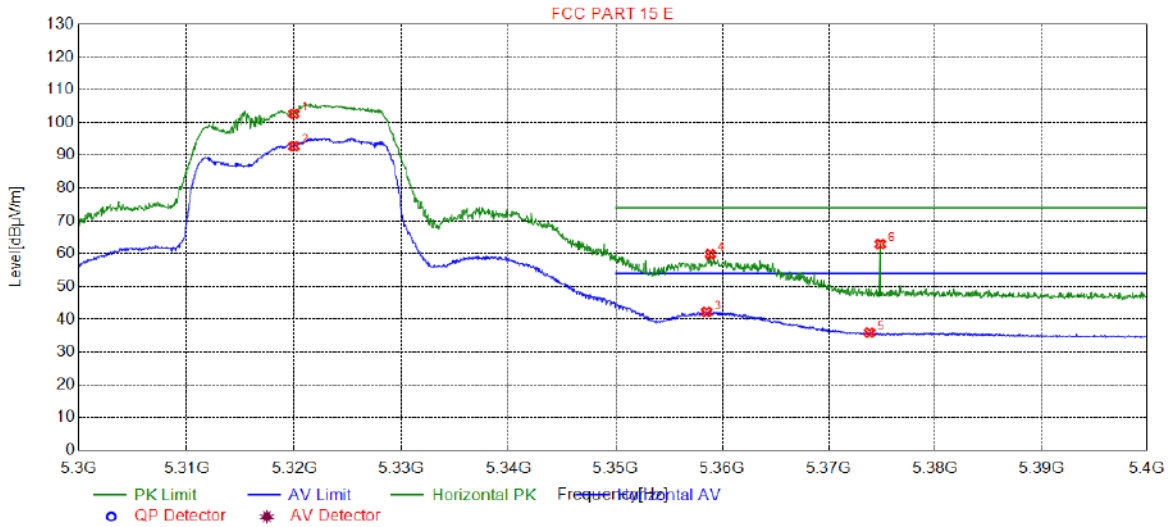


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4.10.1.56 802.11AC20_Channel 64

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	102.67	15.80	0.00	-102.67	150	78	Horizontal
2	5320.00	92.78	15.80	0.00	-92.78	150	70	Horizontal
3	5358.52	42.20	15.99	54.00	11.80	150	64	Horizontal
4	5358.87	59.86	16.00	74.00	14.14	150	70	Horizontal
5	5373.83	35.92	16.09	54.00	18.08	150	166	Horizontal
6	5374.83	62.91	16.09	74.00	11.09	150	84	Horizontal

Final Data List

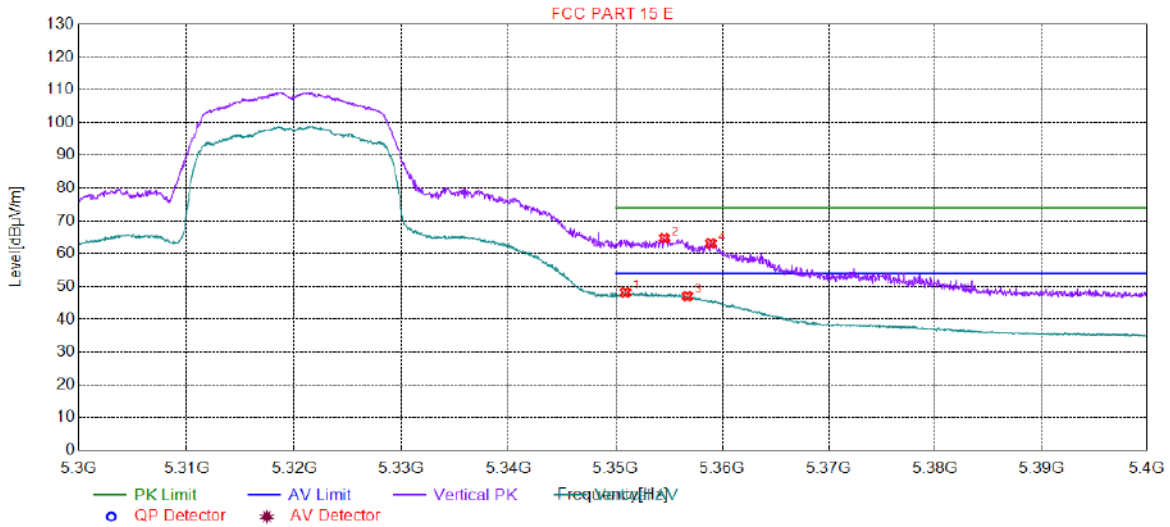


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4.10.1.57 802.11AC20_Channel 64

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5350.92	48.17	15.95	54.00	5.83	150	16	Vertical
2	5354.57	64.75	15.97	74.00	9.25	150	345	Vertical
3	5356.72	47.03	15.98	54.00	6.97	150	3	Vertical
4	5358.92	63.15	16.00	74.00	10.85	150	331	Vertical

Final Data List

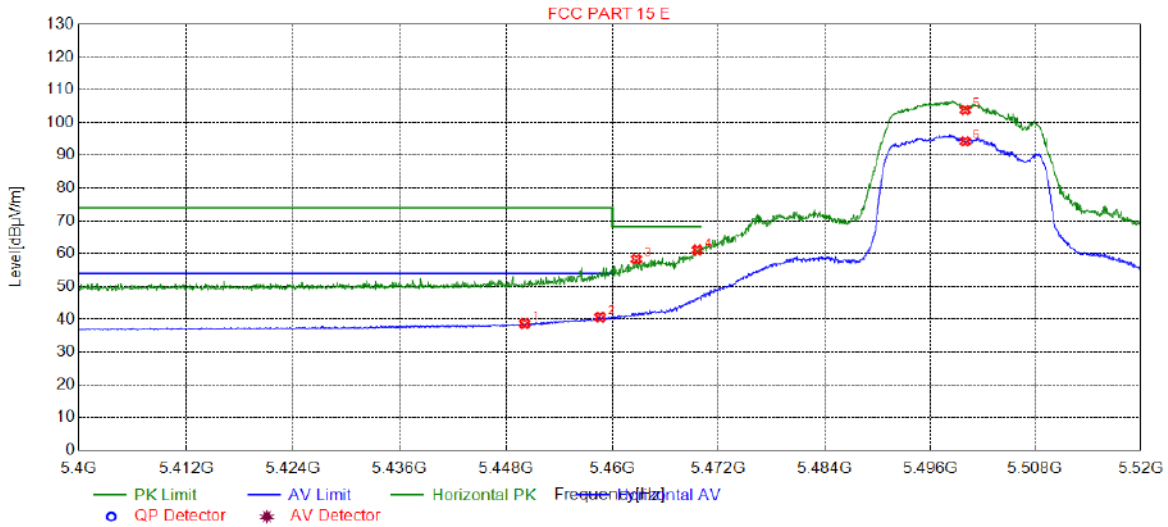


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4.10.1.58 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5450.06	38.71	16.25	54.00	15.29	150	166	Horizontal
2	5458.58	40.61	16.25	54.00	13.39	150	160	Horizontal
3	5462.67	58.36	16.25	68.30	9.94	150	204	Horizontal
4	5469.57	61.15	16.25	68.30	7.15	150	155	Horizontal
5	5500.00	103.87	16.25	0.00	-103.87	150	204	Horizontal
6	5500.00	94.27	16.25	0.00	-94.27	150	204	Horizontal

Final Data List

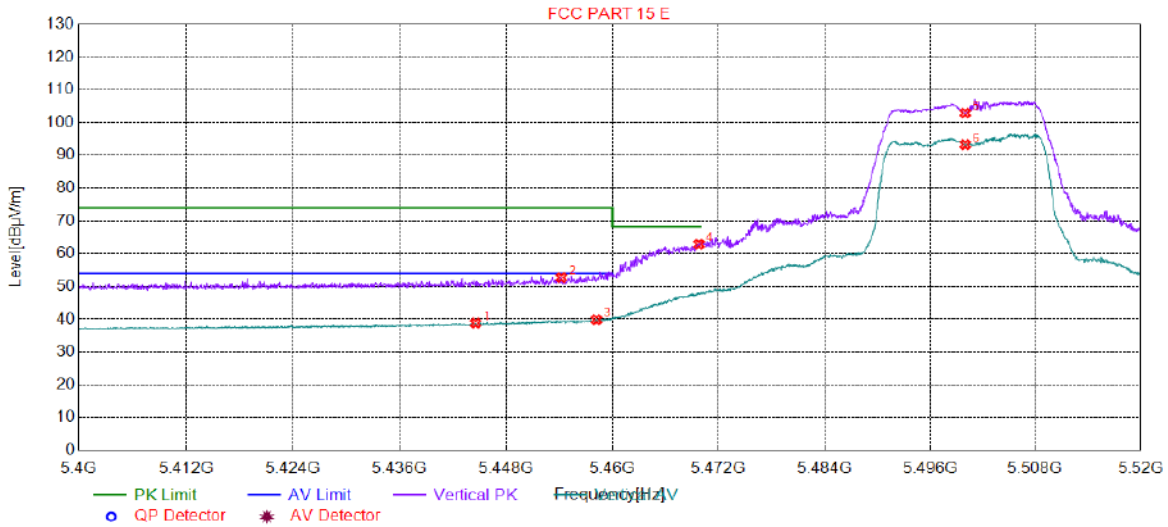


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4.10.1.59 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5444.54	38.82	16.25	54.00	15.18	150	32	Vertical
2	5454.20	52.74	16.25	74.00	21.26	150	341	Vertical
3	5458.16	39.87	16.25	54.00	14.13	150	336	Vertical
4	5469.75	62.87	16.25	68.30	5.43	150	346	Vertical
5	5500.00	102.92	16.25	0.00	-102.92	150	160	Vertical
6	5500.00	93.29	16.25	0.00	-93.29	150	160	Vertical

Final Data List



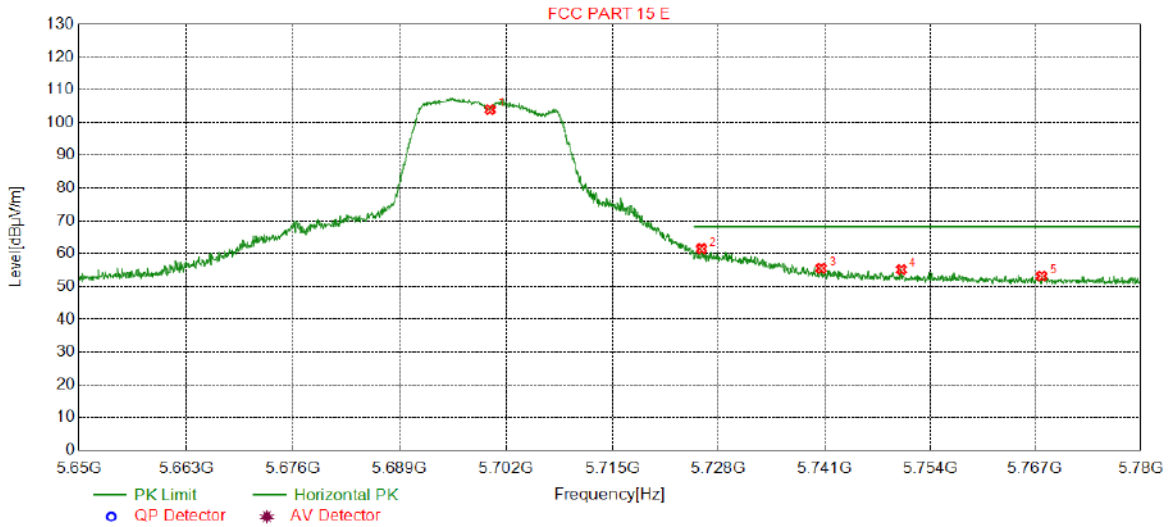
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4.10.1.60 802.11AC20_Channel 140

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	103.98	16.80	0.00	-103.98	150	204	Horizontal
2	5725.89	61.52	16.97	68.30	6.78	150	80	Horizontal
3	5740.59	55.55	17.06	68.30	12.75	150	80	Horizontal
4	5750.47	55.14	17.12	68.30	13.16	150	93	Horizontal
5	5767.77	53.18	17.14	68.30	15.12	150	80	Horizontal

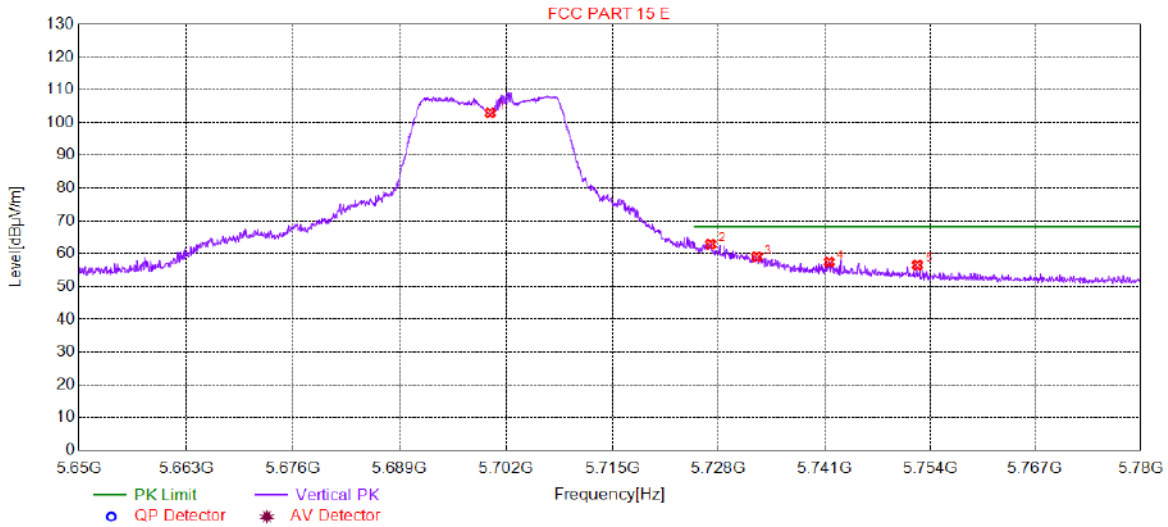
Final Data List



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4.10.1.61 802.11AC20_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	102.96	16.80	0.00	-102.96	150	147	Vertical
2	5726.99	62.89	16.97	68.30	5.41	150	32	Vertical
3	5732.65	59.09	17.01	68.30	9.21	150	335	Vertical
4	5741.56	57.46	17.07	68.30	10.84	150	22	Vertical
5	5752.42	56.51	17.12	68.30	11.79	150	27	Vertical

Final Data List

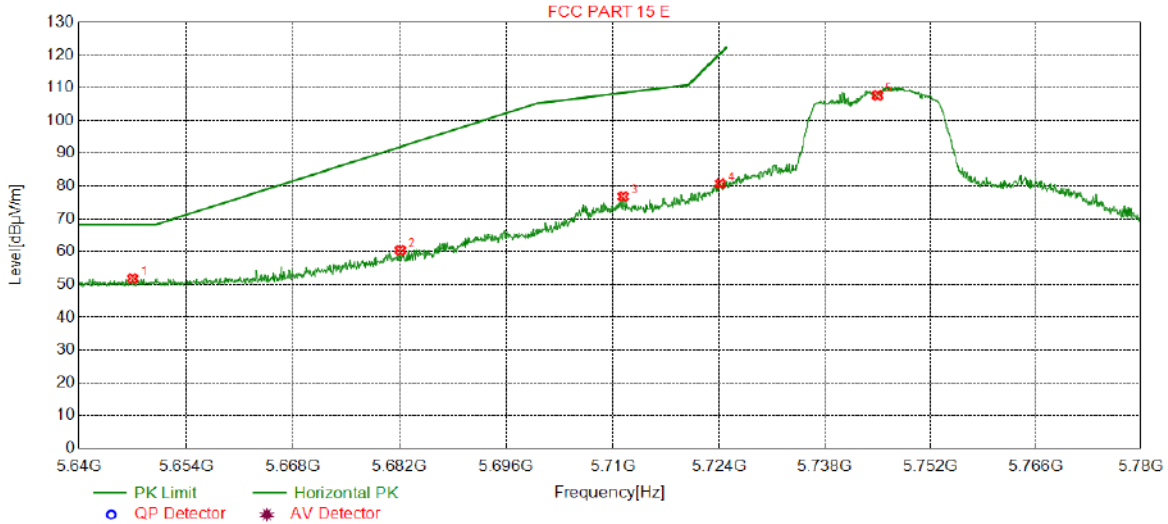


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4.10.1.63 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.00	51.82	16.53	68.30	16.48	150	36	Horizontal
2	5682.02	60.44	16.70	92.00	31.56	150	73	Horizontal
3	5711.36	76.85	16.87	108.48	31.63	150	73	Horizontal
4	5724.18	80.78	16.95	120.44	39.66	150	73	Horizontal
5	5745.00	107.71	17.09	0.00	-107.71	150	77	Horizontal

Final Data List

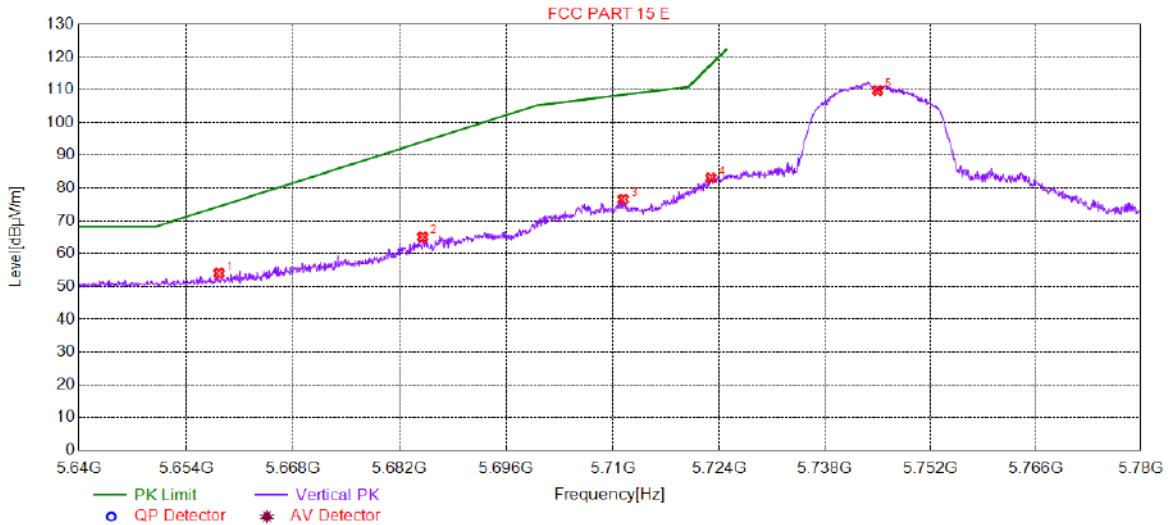


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4.10.1.64 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5658.27	54.06	16.57	74.43	20.37	150	38	Vertical
2	5684.96	65.11	16.72	94.17	29.06	150	38	Vertical
3	5711.36	76.60	16.87	108.48	31.88	150	352	Vertical
4	5722.92	83.18	16.95	117.56	34.38	150	33	Vertical
5	5745.00	109.78	17.09	0.00	-109.78	150	33	Vertical

Final Data List

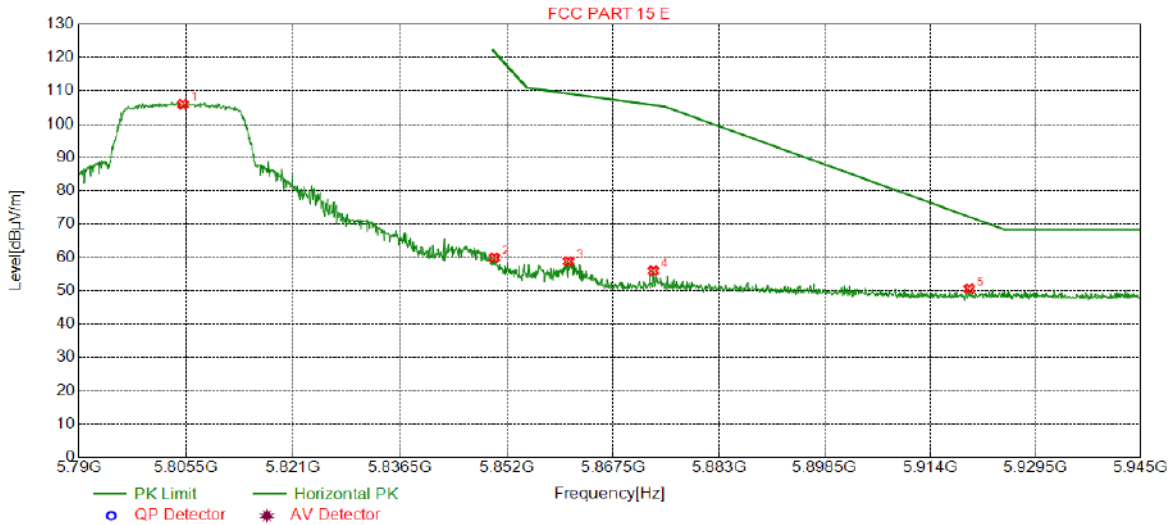


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4.10.1.65 802.11AC20_Channel 161

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5805.00	106.00	17.20	0.00	-106.00	150	225	Horizontal
2	5850.17	59.91	17.26	121.91	62.00	150	225	Horizontal
3	5860.94	58.82	17.23	109.23	50.41	150	216	Horizontal
4	5873.35	56.02	17.19	105.76	49.74	150	220	Horizontal
5	5919.72	50.60	17.41	72.21	21.61	150	220	Horizontal

Final Data List

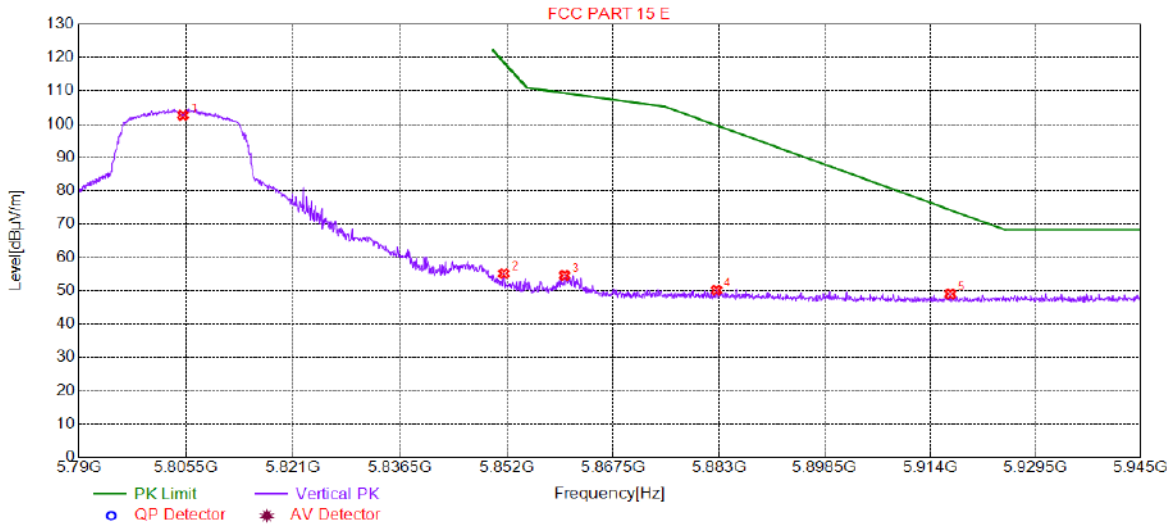


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4.10.1.66 802.11AC20_Channel 161

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5805.00	102.69	17.20	0.00	-102.69	150	257	Vertical
2	5851.56	55.22	17.26	118.73	63.51	150	344	Vertical
3	5860.40	54.66	17.23	109.39	54.73	150	275	Vertical
4	5882.58	50.19	17.16	99.69	49.50	150	326	Vertical
5	5916.93	49.07	17.37	74.27	25.20	150	322	Vertical

Final Data List

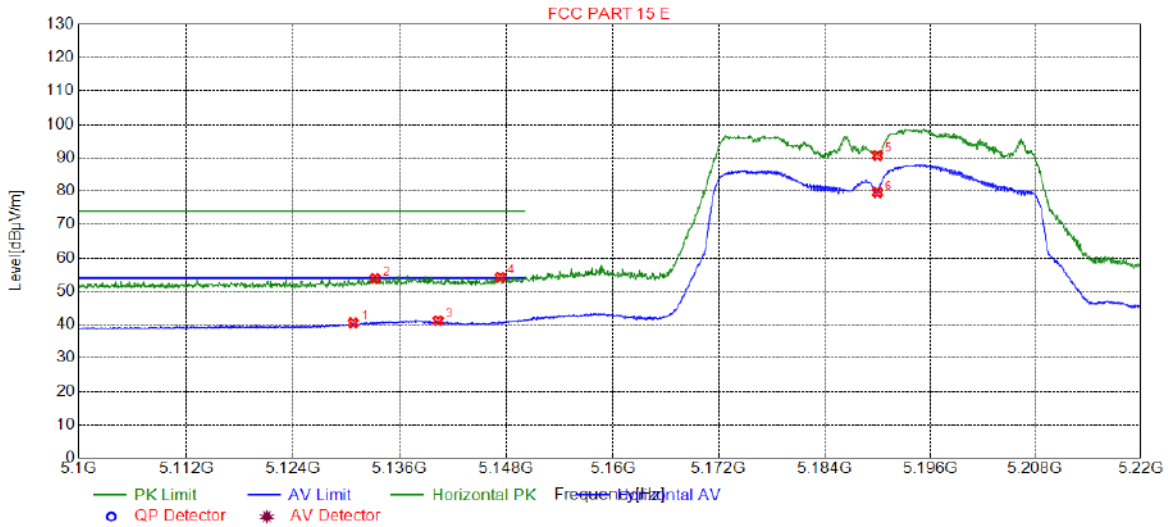


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4.10.1.67 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5130.73	40.57	15.35	54.00	13.43	150	155	Horizontal
2	5133.19	53.92	15.38	74.00	20.08	150	78	Horizontal
3	5140.28	41.21	15.44	54.00	12.79	150	155	Horizontal
4	5147.30	54.25	15.50	74.00	19.75	150	160	Horizontal
5	5190.00	90.73	15.58	0.00	-90.73	150	67	Horizontal
6	5190.00	79.63	15.58	0.00	-79.63	150	155	Horizontal

Final Data List

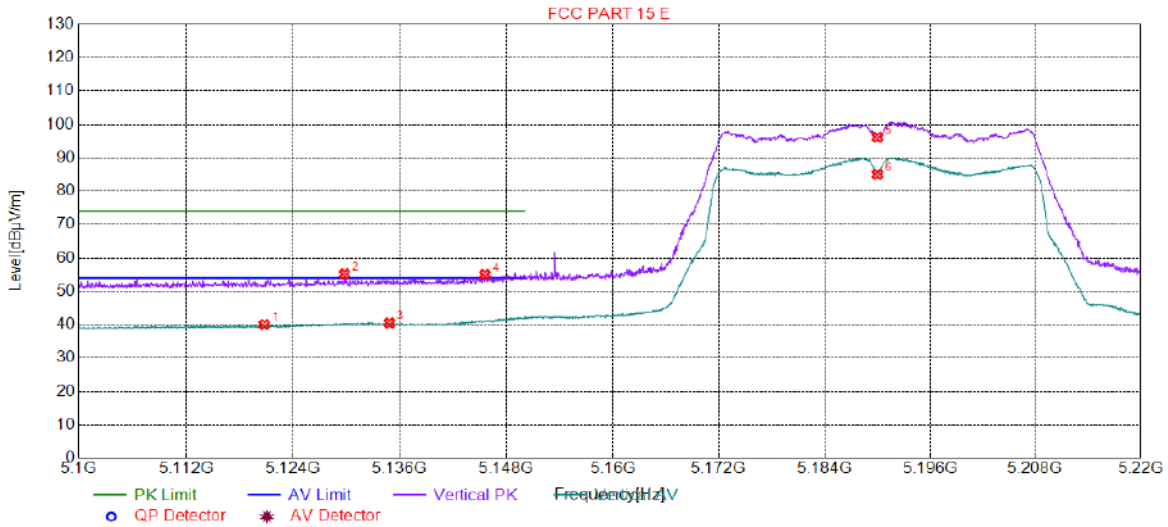


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4.10.1.68 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.77	40.06	15.27	54.00	13.94	150	347	Vertical
2	5129.77	55.22	15.35	74.00	18.78	150	336	Vertical
3	5134.81	40.52	15.39	54.00	13.48	150	341	Vertical
4	5145.56	55.06	15.48	74.00	18.94	150	347	Vertical
5	5190.00	96.17	15.58	0.00	-96.17	150	353	Vertical
6	5190.00	85.06	15.58	0.00	-85.06	150	353	Vertical

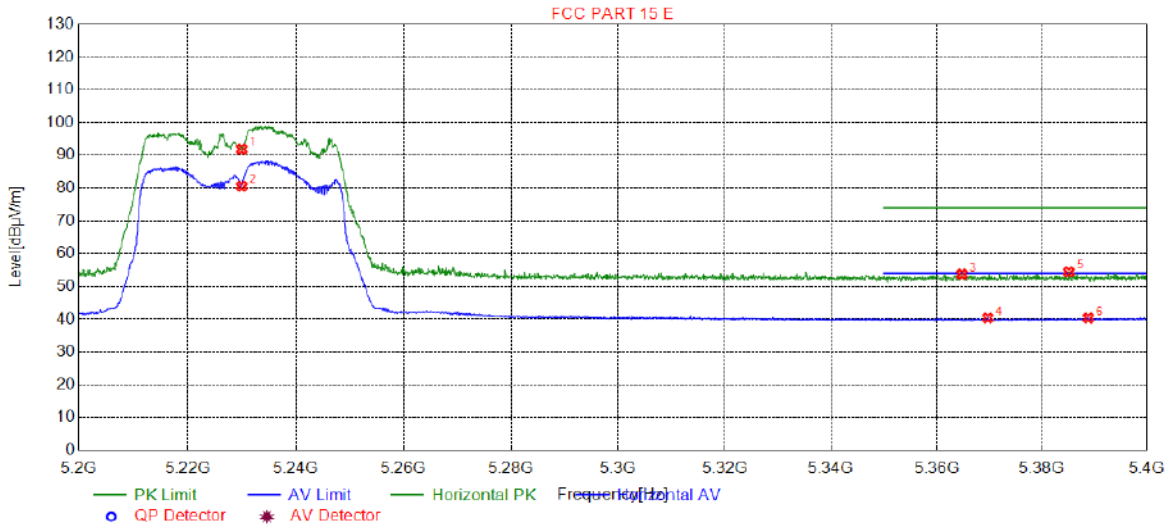
Final Data List



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4.10.1.69 802.11AC40_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	91.91	15.51	0.00	-91.91	150	62	Horizontal
2	5230.00	80.58	15.51	0.00	-80.58	150	62	Horizontal
3	5364.78	53.76	16.03	74.00	20.24	150	186	Horizontal
4	5369.68	40.40	16.06	54.00	13.60	150	103	Horizontal
5	5385.09	54.46	16.16	74.00	19.54	150	124	Horizontal
6	5388.79	40.39	16.18	54.00	13.61	150	311	Horizontal

Final Data List

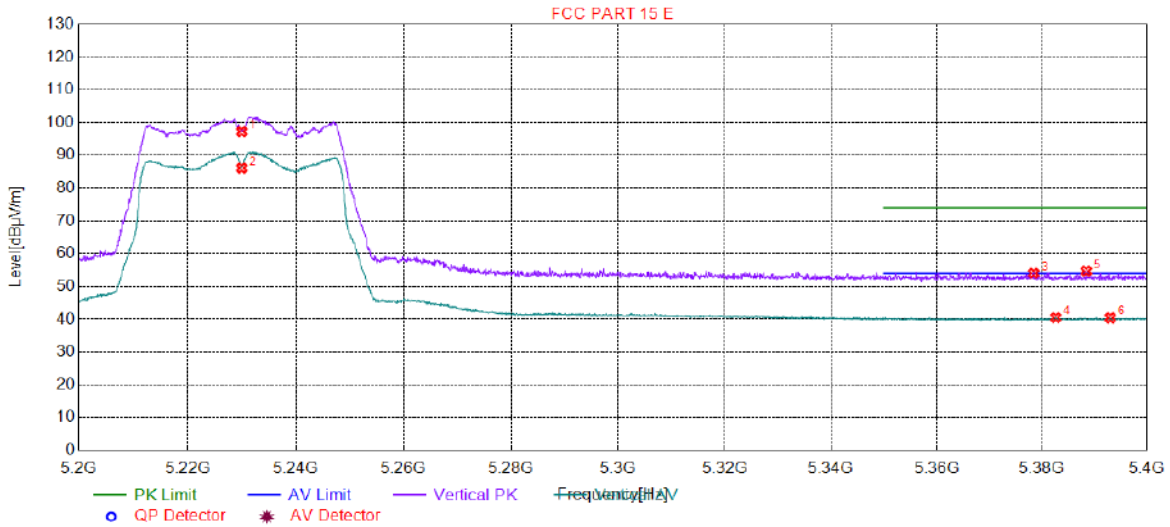


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4.10.1.70 802.11AC40_Channel 46

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	97.29	15.51	0.00	-97.29	150	340	Vertical
2	5230.00	86.12	15.51	0.00	-86.12	150	347	Vertical
3	5378.38	54.08	16.12	74.00	19.92	150	118	Vertical
4	5382.59	40.50	16.14	54.00	13.50	150	340	Vertical
5	5388.39	54.69	16.18	74.00	19.31	150	359	Vertical
6	5392.99	40.44	16.21	54.00	13.56	150	16	Vertical

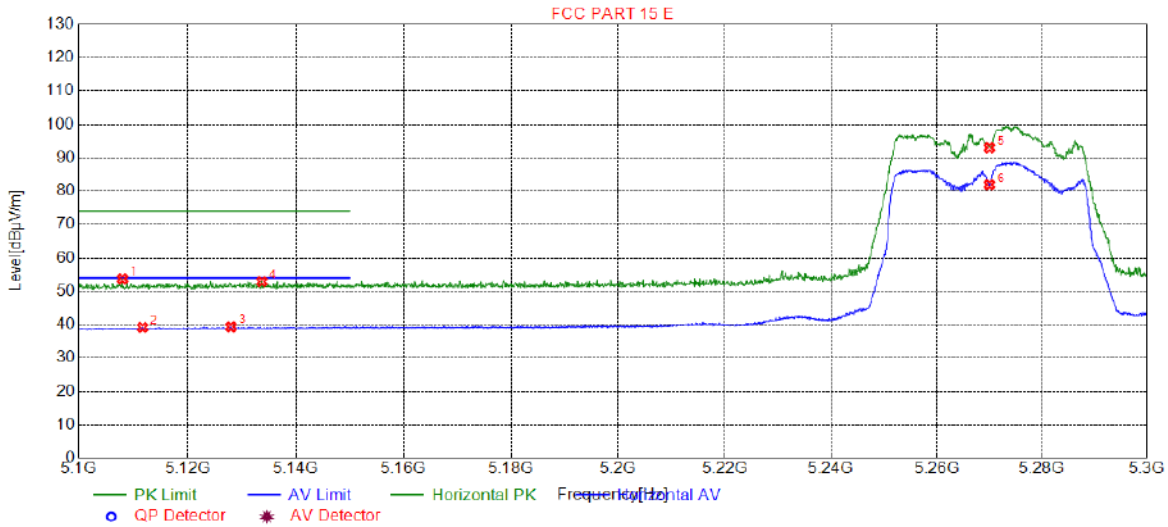
Final Data List



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4.10.1.71 802.11AC40_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	5108.00	53.73	15.16	74.00	20.27	150	104	Horizontal
2	5111.70	39.21	15.19	54.00	14.79	150	2	Horizontal
3	5128.01	39.37	15.33	54.00	14.63	150	236	Horizontal
4	5133.71	52.95	15.38	74.00	21.05	150	284	Horizontal
5	5270.00	93.03	15.56	0.00	-93.03	150	63	Horizontal
6	5270.00	81.95	15.56	0.00	-81.95	150	63	Horizontal

Final Data List

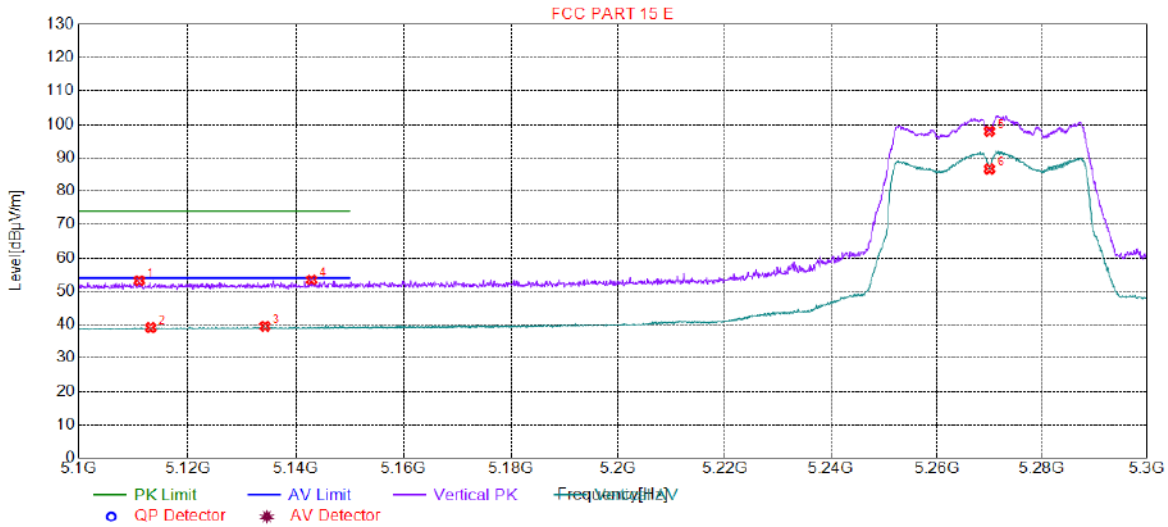


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4.10.1.72 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5111.10	53.22	15.19	74.00	20.78	150	112	Vertical
2	5113.20	39.15	15.20	54.00	14.85	150	360	Vertical
3	5134.31	39.54	15.39	54.00	14.46	150	119	Vertical
4	5142.92	53.45	15.46	74.00	20.55	150	257	Vertical
5	5270.00	97.97	15.56	0.00	-97.97	150	346	Vertical
6	5270.00	86.65	15.56	0.00	-86.65	150	339	Vertical

Final Data List

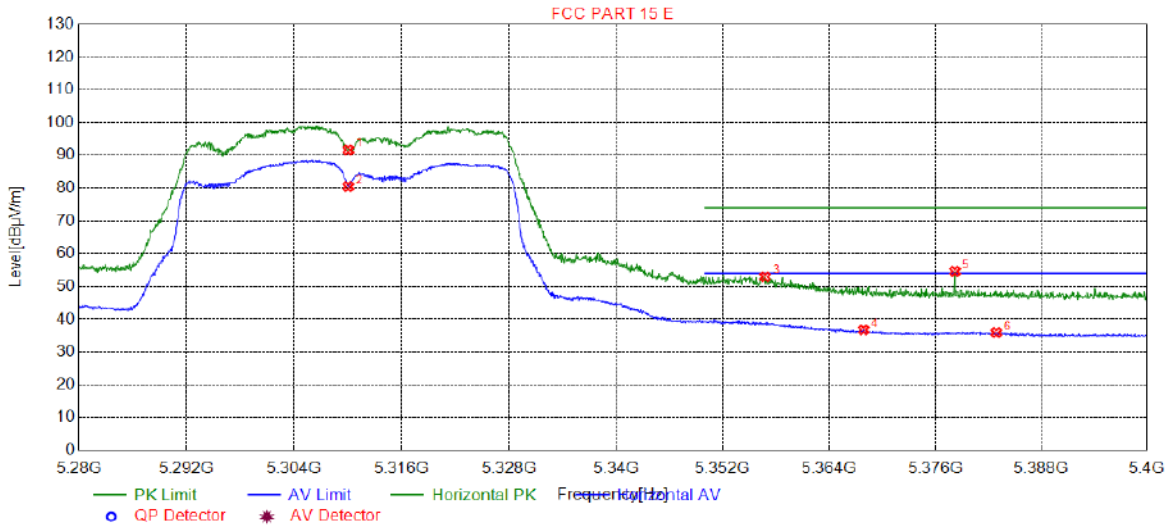


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4.10.1.73 802.11AC40_Channel 62

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	91.65	15.75	0.00	-91.65	150	144	Horizontal
2	5310.00	80.49	15.75	0.00	-80.49	150	151	Horizontal
3	5356.77	52.98	15.98	74.00	21.02	150	151	Horizontal
4	5367.88	36.77	16.05	54.00	17.23	150	151	Horizontal
5	5378.20	54.60	16.11	74.00	19.40	150	144	Horizontal
6	5382.89	35.94	16.14	54.00	18.06	150	158	Horizontal

Final Data List

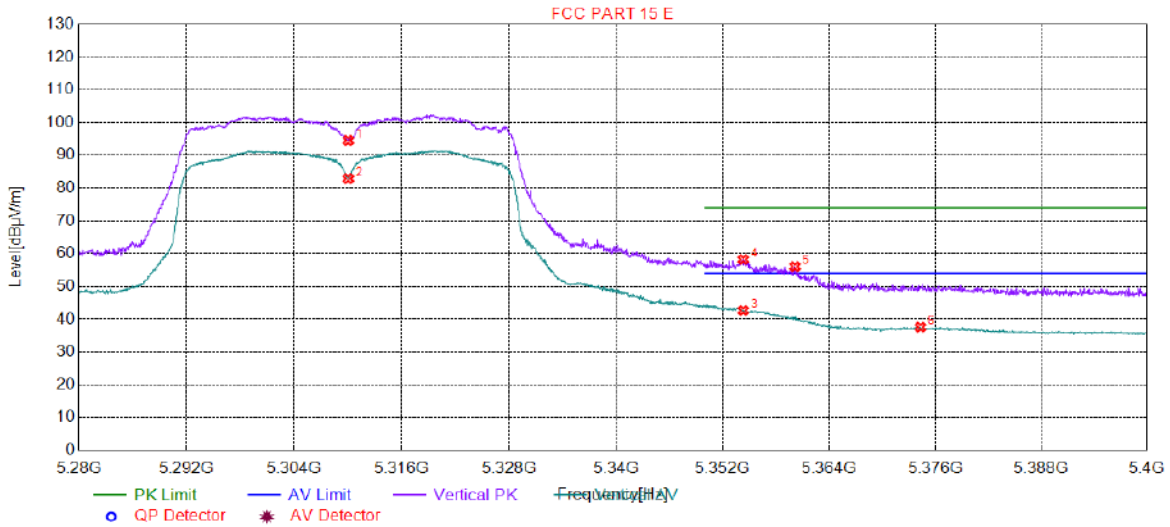


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4.10.1.74 802.11AC40_Channel 62

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	94.53	15.75	0.00	-94.53	150	332	Vertical
2	5310.00	82.94	15.75	0.00	-82.94	150	332	Vertical
3	5354.31	42.66	15.97	54.00	11.34	150	16	Vertical
4	5354.31	58.23	15.97	74.00	15.77	150	358	Vertical
5	5360.14	56.05	16.00	74.00	17.95	150	29	Vertical
6	5374.30	37.60	16.09	54.00	16.40	150	339	Vertical

Final Data List

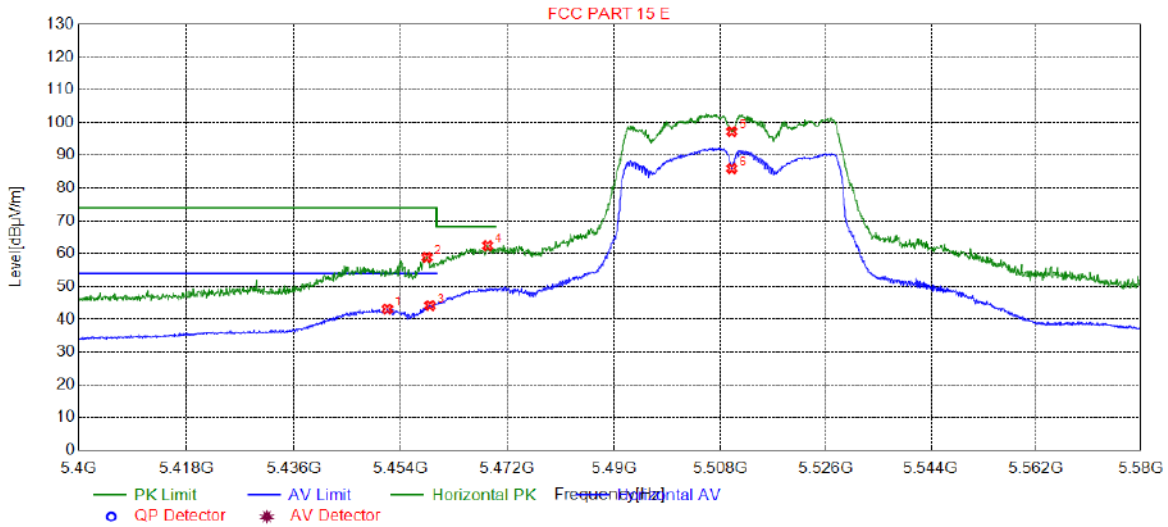


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4.10.1.75 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5451.68	43.12	16.25	54.00	10.88	150	196	Horizontal
2	5458.34	58.88	16.25	74.00	15.12	150	149	Horizontal
3	5458.88	44.18	16.25	54.00	9.82	150	66	Horizontal
4	5468.61	62.46	16.25	68.30	5.84	150	149	Horizontal
5	5510.00	97.28	16.28	0.00	-97.28	150	202	Horizontal
6	5510.00	85.97	16.28	0.00	-85.97	150	156	Horizontal

Final Data List

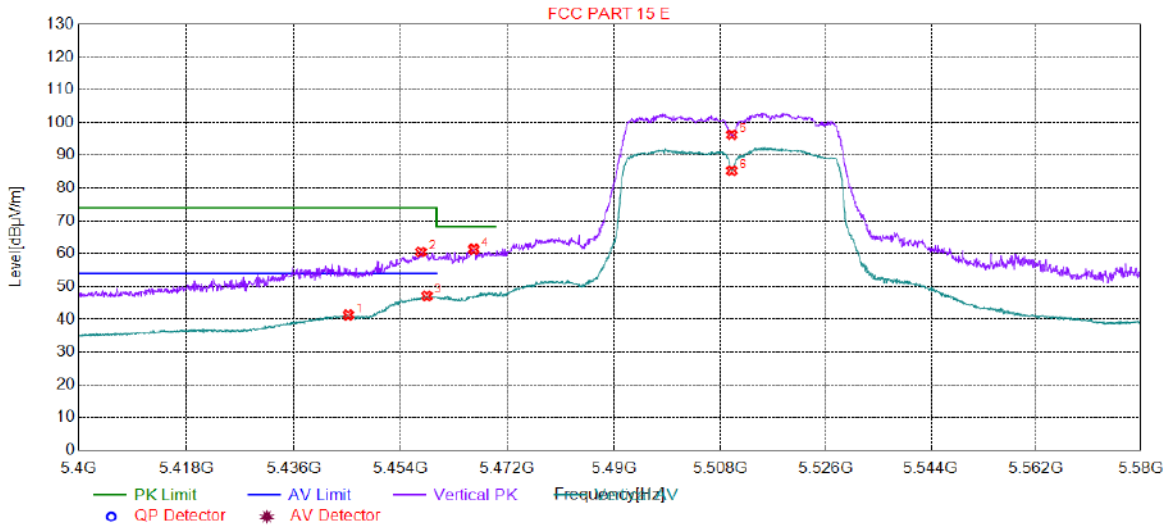


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4.10.1.76 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5445.11	41.31	16.25	54.00	12.69	150	338	Vertical
2	5457.35	60.56	16.25	74.00	13.44	150	23	Vertical
3	5458.34	47.10	16.25	54.00	6.90	150	357	Vertical
4	5466.27	61.38	16.25	68.30	6.92	150	23	Vertical
5	5510.00	96.29	16.28	0.00	-96.29	150	167	Vertical
6	5510.00	85.31	16.28	0.00	-85.31	150	160	Vertical

Final Data List

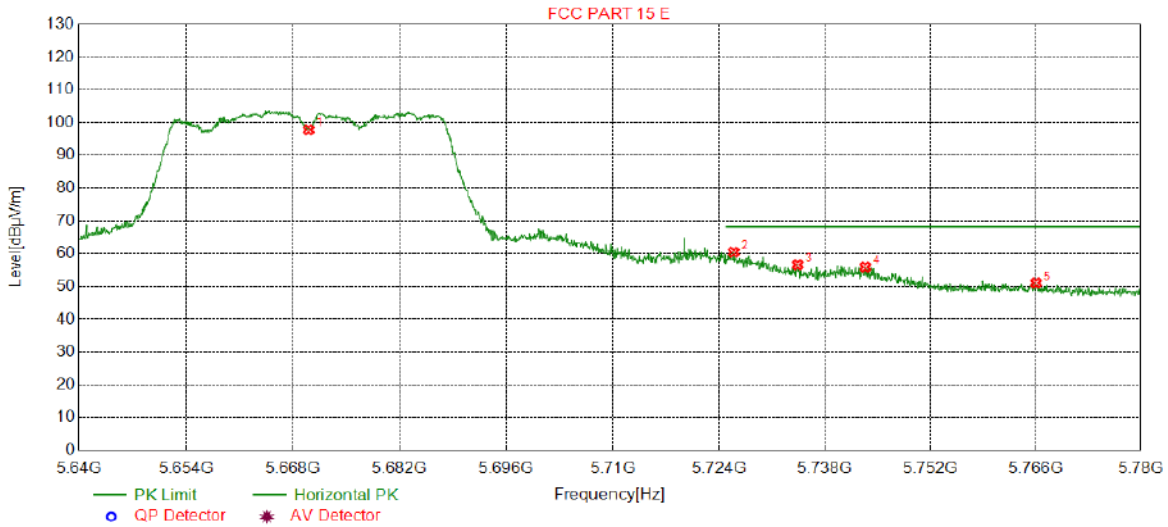


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4.10.1.77 802.11AC40_Channel 134

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	97.82	16.64	0.00	-97.82	150	197	Horizontal
2	5725.93	60.50	16.97	68.30	7.80	150	67	Horizontal
3	5734.40	56.61	17.02	68.30	11.69	150	193	Horizontal
4	5743.37	55.92	17.08	68.30	12.38	150	81	Horizontal
5	5766.06	51.06	17.14	68.30	17.24	150	90	Horizontal

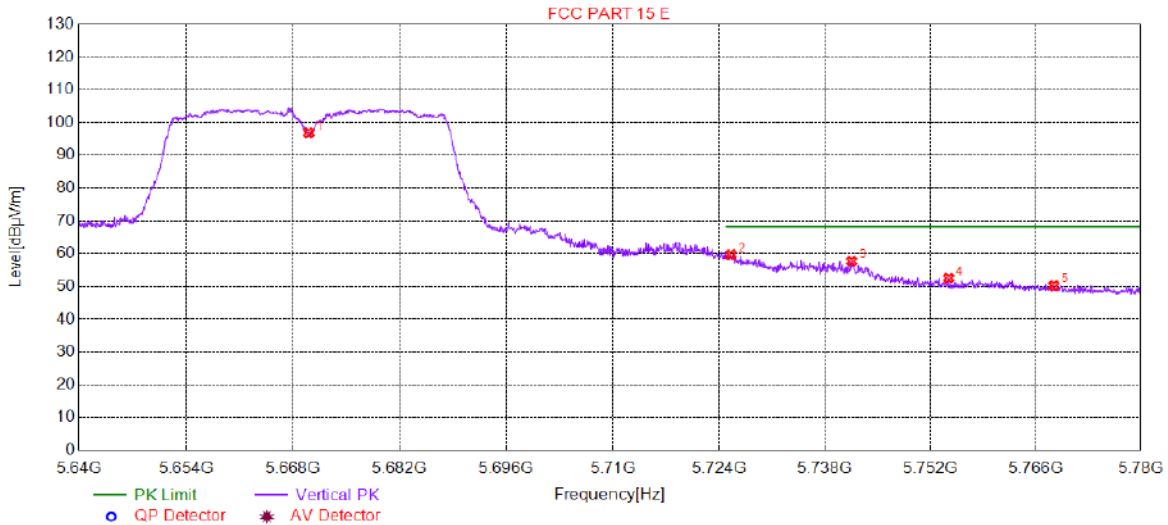
Final Data List



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4.10.1.78 802.11AC40_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	96.88	16.64	0.00	-96.88	150	163	Vertical
2	5725.58	59.72	16.96	68.30	8.58	150	359	Vertical
3	5741.55	57.70	17.07	68.30	10.60	150	38	Vertical
4	5754.43	52.57	17.13	68.30	15.73	150	43	Vertical
5	5768.44	50.24	17.15	68.30	18.06	150	38	Vertical

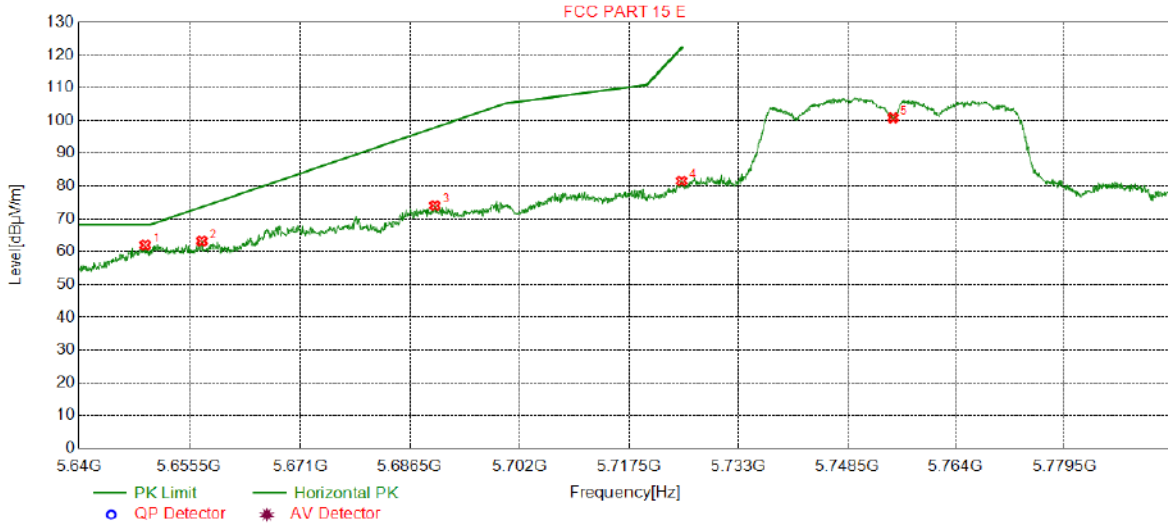
Final Data List



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4.10.1.80 802.11AC40_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	5649.30	62.02	16.53	68.30	6.28	150	69	Horizontal
2	5657.21	63.26	16.57	73.64	10.38	150	189	Horizontal
3	5690.01	74.09	16.75	97.91	23.82	150	73	Horizontal
4	5724.90	81.61	16.96	122.08	40.47	150	69	Horizontal
5	5755.00	100.86	17.13	0.00	-100.86	150	199	Horizontal

Final Data List

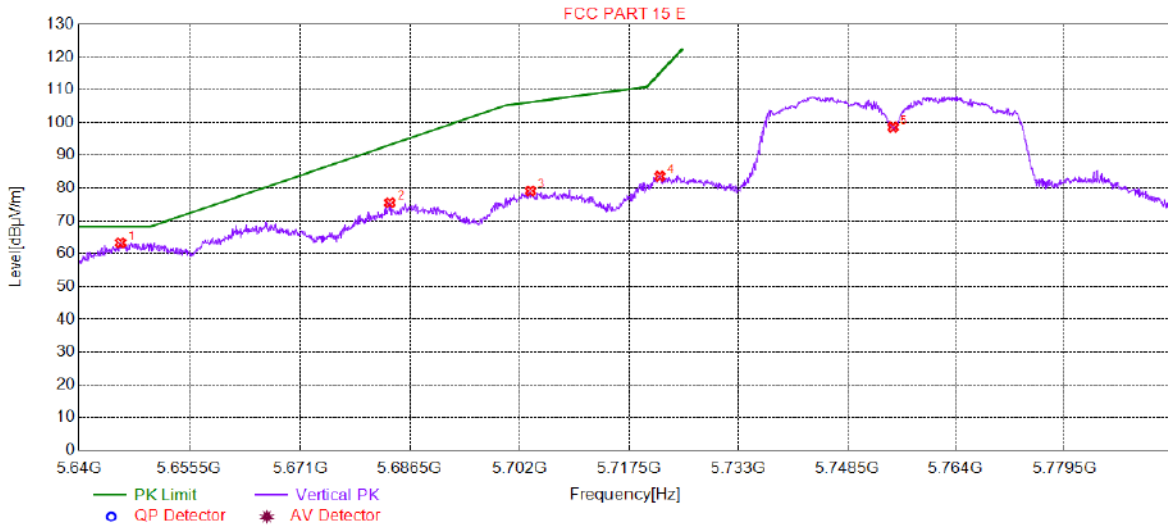


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4.10.1.81 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.81	63.32	16.54	68.30	4.98	150	24	Vertical
2	5683.65	75.58	16.71	93.20	17.62	150	33	Vertical
3	5703.50	79.13	16.82	106.28	27.15	150	28	Vertical
4	5721.80	83.66	16.94	115.01	31.35	150	33	Vertical
5	5755.00	98.63	17.13	0.00	-98.63	150	152	Vertical

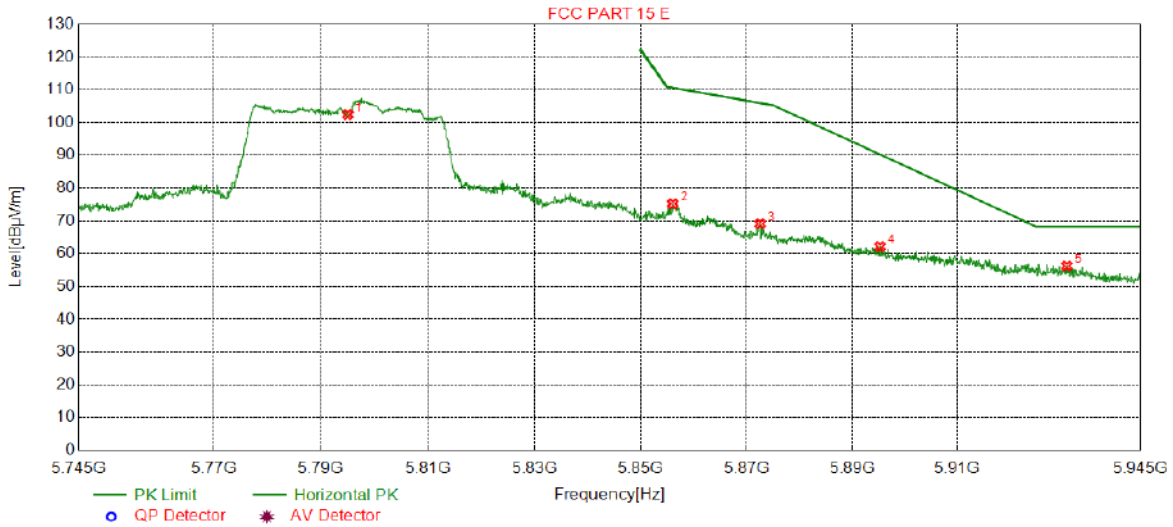
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4.10.1.82 802.11AC40_Channel 159

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	102.47	17.18	0.00	-102.47	150	84	Horizontal
2	5856.05	75.27	17.24	110.60	35.33	150	84	Horizontal
3	5872.56	69.15	17.19	105.98	36.83	150	70	Horizontal
4	5895.27	62.18	17.12	90.30	28.12	150	80	Horizontal
5	5930.89	56.24	17.59	68.30	12.06	150	84	Horizontal

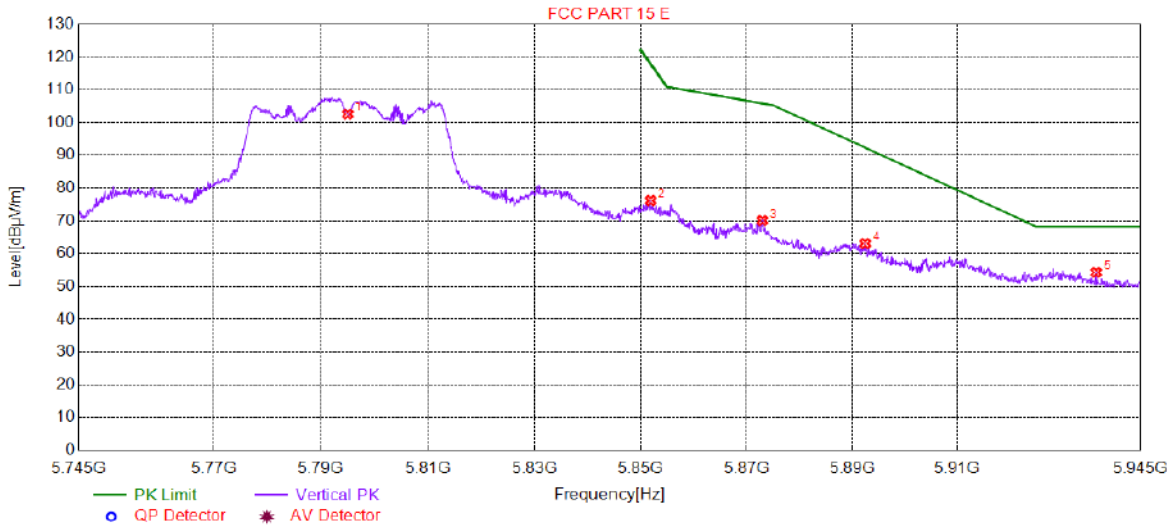
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4.10.1.83 802.11AC40_Channel 159

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	102.59	17.18	0.00	-102.59	150	36	Vertical
2	5851.85	76.22	17.25	118.07	41.85	150	27	Vertical
3	5872.96	70.13	17.19	105.87	35.74	150	27	Vertical
4	5892.47	63.09	17.13	92.37	29.28	150	32	Vertical
5	5936.49	54.31	17.67	68.30	13.99	150	299	Vertical

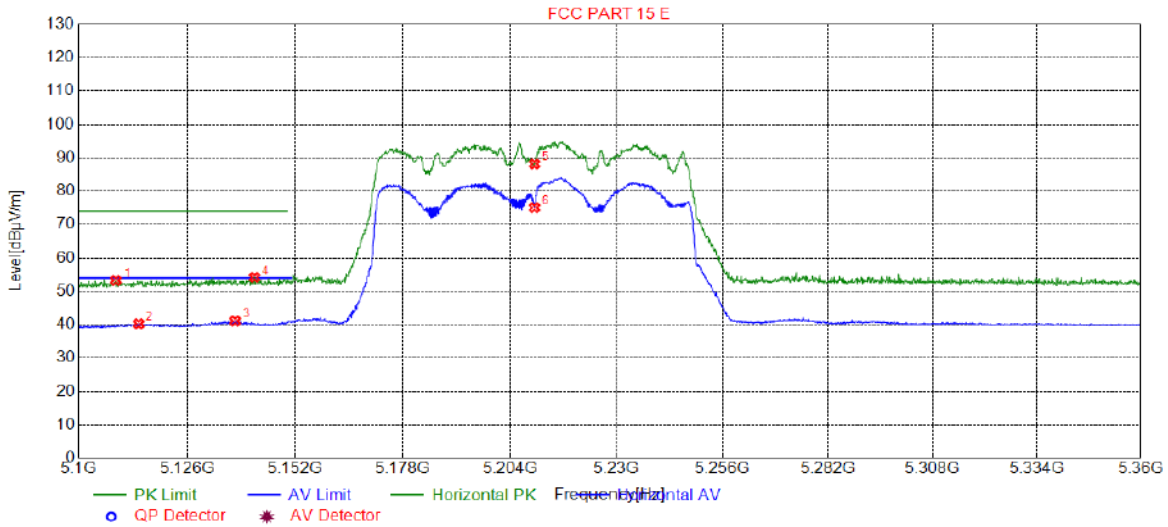
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4.10.1.84 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5108.84	53.29	15.17	74.00	20.71	150	76	Horizontal
2	5114.30	40.28	15.21	54.00	13.72	150	159	Horizontal
3	5137.45	41.14	15.41	54.00	12.86	150	159	Horizontal
4	5142.14	54.21	15.45	74.00	19.79	150	16	Horizontal
5	5210.00	88.15	15.56	0.00	-88.15	150	166	Horizontal
6	5210.00	75.10	15.56	0.00	-75.10	150	56	Horizontal

Final Data List

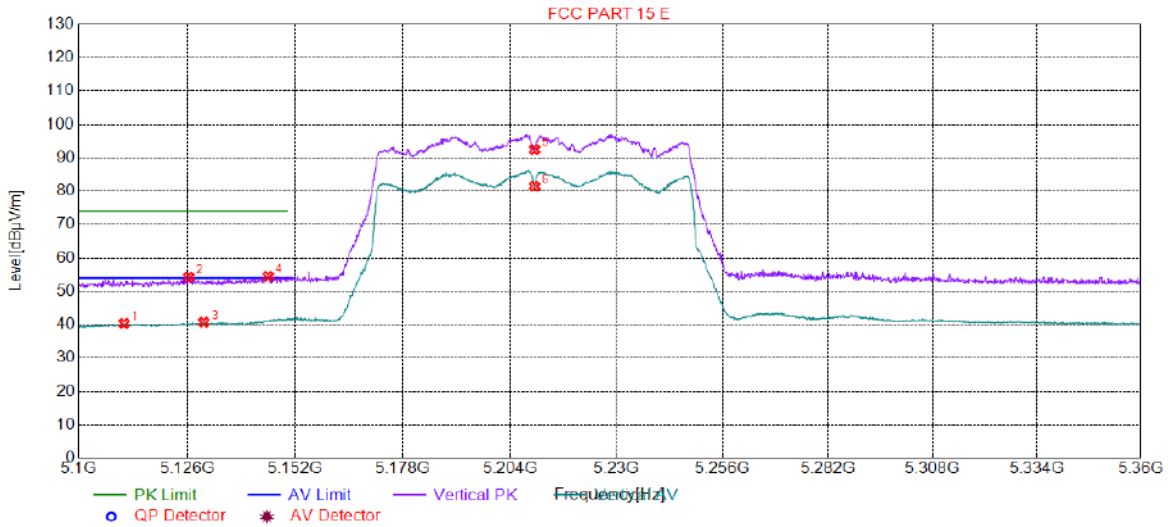


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4.10.1.85 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5110.79	40.41	15.18	54.00	13.59	150	338	Vertical
2	5126.27	54.29	15.32	74.00	19.71	150	0	Vertical
3	5129.91	40.76	15.35	54.00	13.24	150	344	Vertical
4	5145.39	54.54	15.48	74.00	19.46	150	2	Vertical
5	5210.00	92.50	15.56	0.00	-92.50	150	338	Vertical
6	5210.00	81.48	15.56	0.00	-81.48	150	338	Vertical

Final Data List

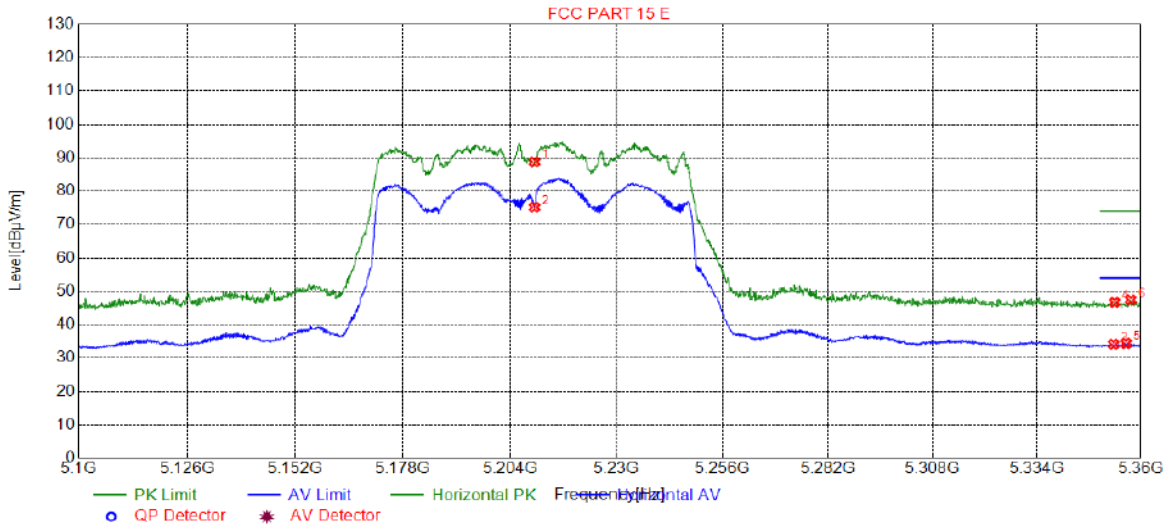


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4.10.1.86 802.11AC80_Channel 42

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	88.78	15.56	0.00	-88.78	150	160	Horizontal
2	5210.00	75.19	15.56	0.00	-75.19	150	160	Horizontal
3	5353.23	34.14	15.96	54.00	19.86	150	153	Horizontal
4	5353.49	46.73	15.96	74.00	27.27	150	153	Horizontal
5	5356.35	34.42	15.98	54.00	19.58	150	160	Horizontal
6	5357.52	47.49	15.99	74.00	26.51	150	91	Horizontal

Final Data List

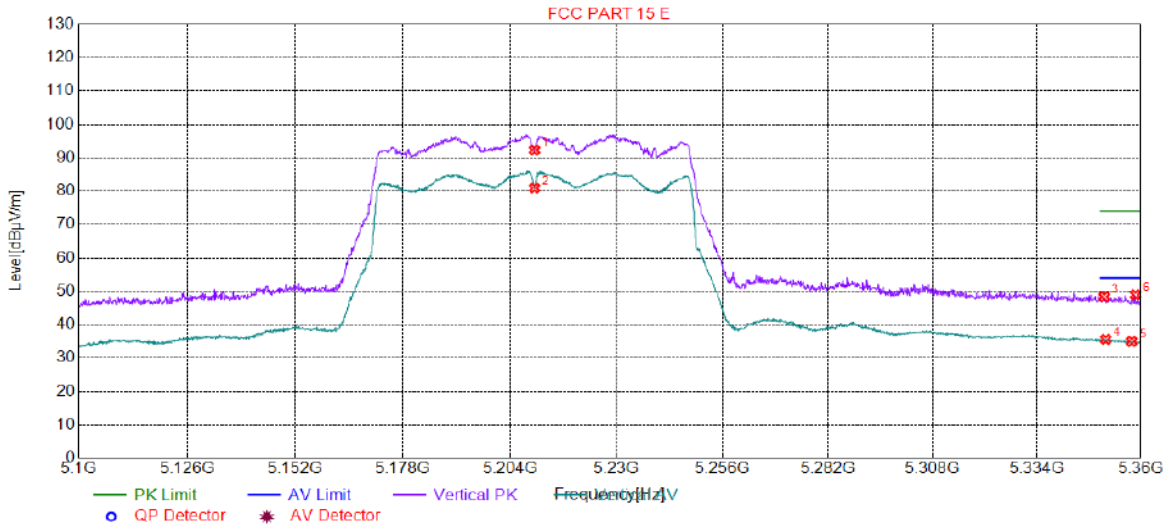


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4.10.1.87 802.11AC80_Channel 42

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	92.34	15.56	0.00	-92.34	150	338	Vertical
2	5210.00	80.94	15.56	0.00	-80.94	150	331	Vertical
3	5350.89	48.41	15.95	74.00	25.59	150	331	Vertical
4	5351.28	35.60	15.95	54.00	18.40	150	344	Vertical
5	5357.78	35.04	15.99	54.00	18.96	150	338	Vertical
6	5358.69	48.98	15.99	74.00	25.02	150	325	Vertical

Final Data List

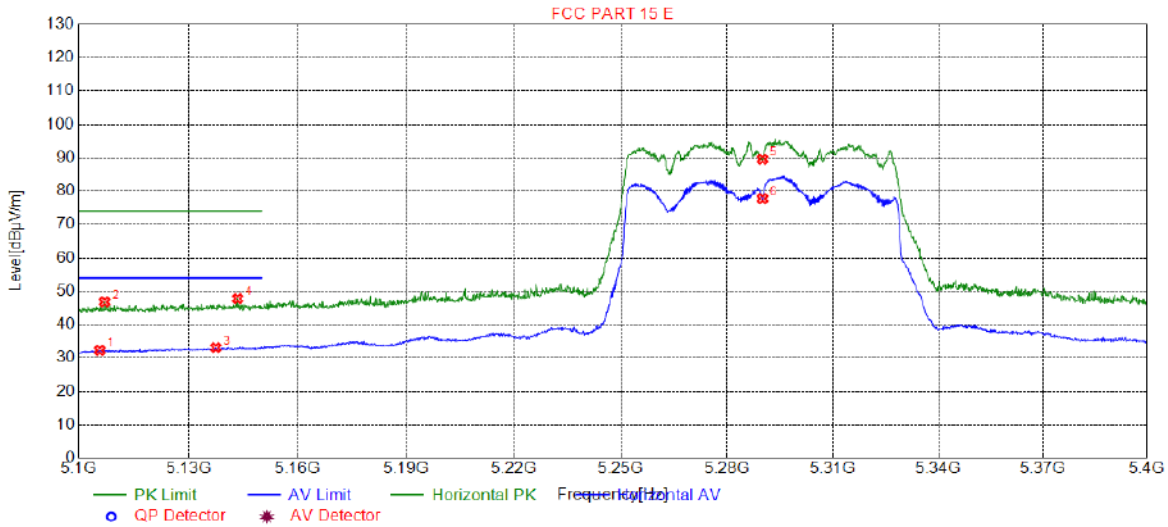


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4.10.1.88 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5105.70	32.37	15.14	54.00	21.63	150	64	Horizontal
2	5107.05	46.87	15.15	74.00	27.13	150	202	Horizontal
3	5137.51	33.15	15.41	54.00	20.85	150	57	Horizontal
4	5143.52	47.85	15.46	74.00	26.15	150	161	Horizontal
5	5290.00	89.59	15.65	0.00	-89.59	150	71	Horizontal
6	5290.00	77.77	15.65	0.00	-77.77	150	64	Horizontal

Final Data List

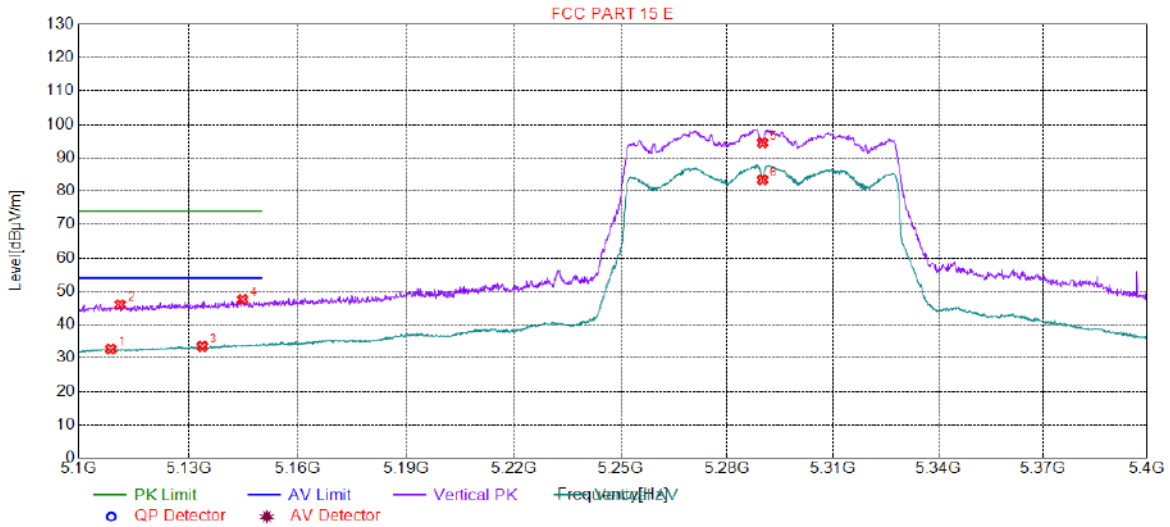


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4.10.1.89 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5108.70	32.74	15.16	54.00	21.26	150	337	Vertical
2	5111.25	46.07	15.19	74.00	27.93	150	268	Vertical
3	5133.76	33.52	15.38	54.00	20.48	150	331	Vertical
4	5144.87	47.58	15.48	74.00	26.42	150	316	Vertical
5	5290.00	94.49	15.65	0.00	-94.49	150	331	Vertical
6	5290.00	83.45	15.65	0.00	-83.45	150	344	Vertical

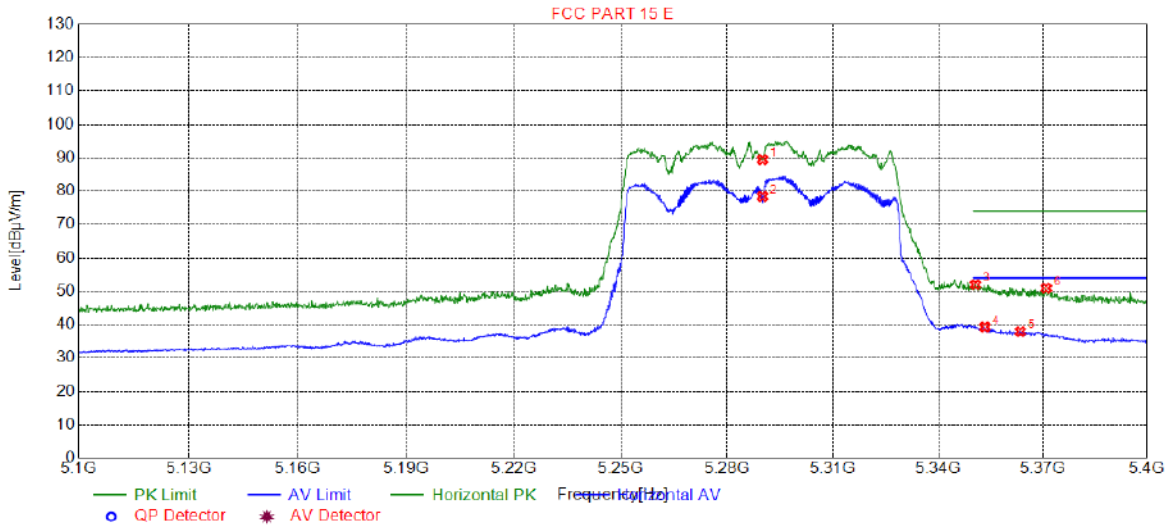
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4.10.1.90 802.11AC80_Channel 58

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	89.45	15.65	0.00	-89.45	150	70	Horizontal
2	5290.00	78.45	15.65	0.00	-78.45	150	63	Horizontal
3	5350.62	52.00	15.94	74.00	22.00	150	77	Horizontal
4	5353.32	39.33	15.96	54.00	14.67	150	160	Horizontal
5	5363.53	37.96	16.02	54.00	16.04	150	63	Horizontal
6	5370.88	50.93	16.07	74.00	23.07	150	77	Horizontal

Final Data List

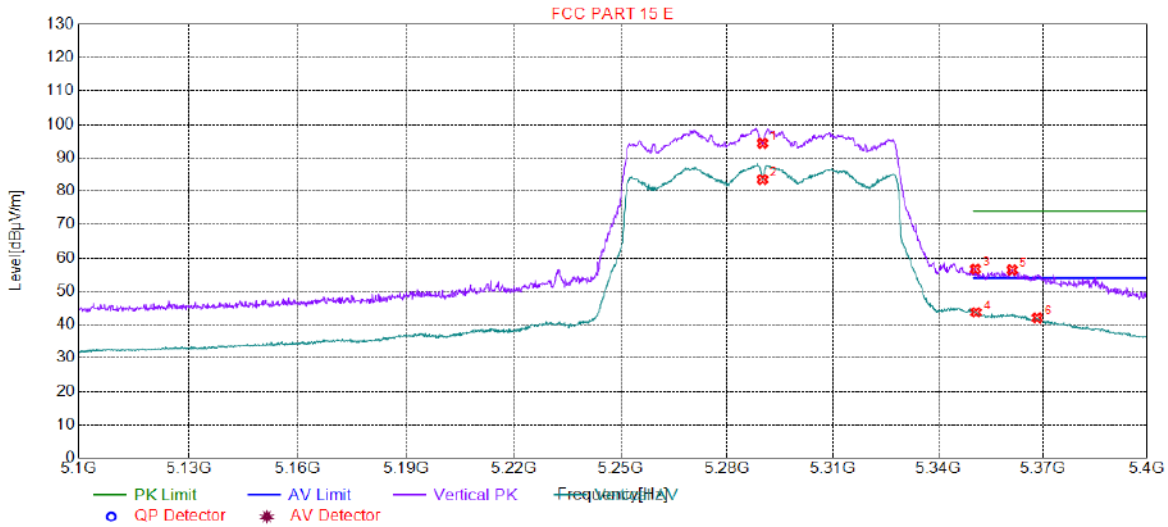


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4.10.1.91 802.11AC80_Channel 58

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	94.34	15.65	0.00	-94.34	150	338	Vertical
2	5290.00	83.52	15.65	0.00	-83.52	150	344	Vertical
3	5350.62	56.67	15.94	74.00	17.33	150	344	Vertical
4	5350.77	43.69	15.94	54.00	10.31	150	344	Vertical
5	5361.13	56.42	16.01	74.00	17.58	150	22	Vertical
6	5368.33	42.03	16.05	54.00	11.97	150	344	Vertical

Final Data List

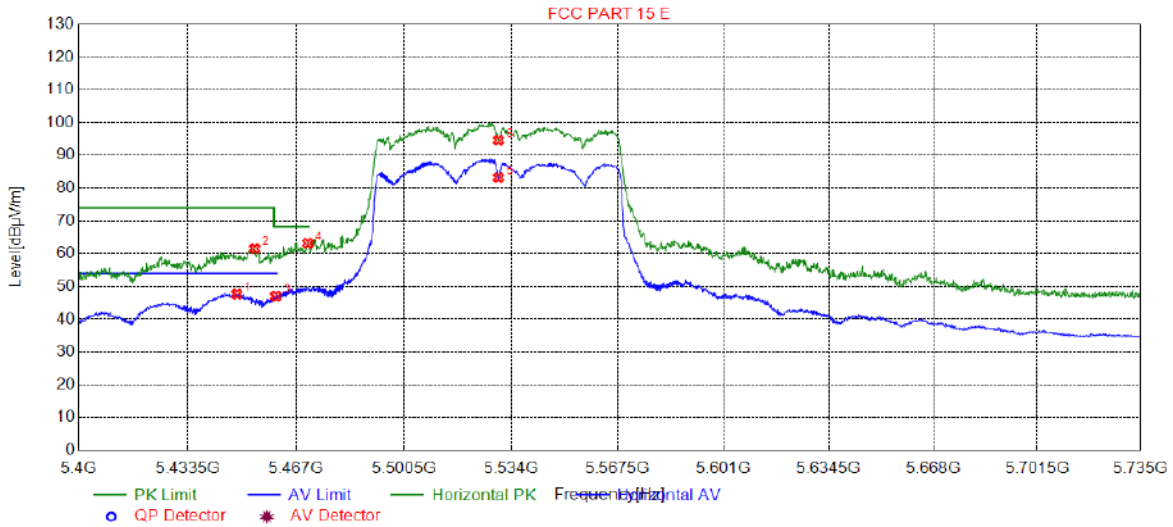


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4.10.1.92 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5448.59	47.68	16.25	54.00	6.32	150	145	Horizontal
2	5454.12	61.55	16.25	74.00	12.45	150	166	Horizontal
3	5460.66	47.02	16.25	54.00	6.98	150	152	Horizontal
4	5470.55	63.20	16.25	68.30	5.10	150	206	Horizontal
5	5530.00	83.26	16.35	0.00	-83.26	150	206	Horizontal
6	5530.00	94.61	16.35	0.00	-94.61	150	166	Horizontal

Final Data List

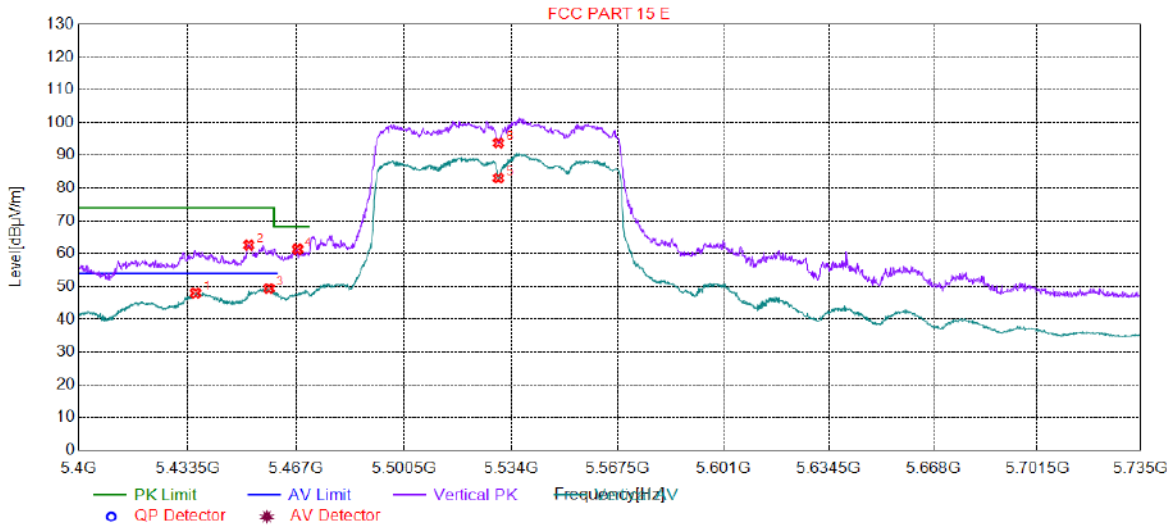


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4.10.1.93 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5435.86	47.95	16.25	54.00	6.05	150	28	Vertical
2	5452.28	62.63	16.25	74.00	11.37	150	344	Vertical
3	5458.48	49.36	16.25	54.00	4.64	150	7	Vertical
4	5467.36	61.38	16.25	68.30	6.92	150	159	Vertical
5	5530.00	83.10	16.35	0.00	-83.10	150	152	Vertical
6	5530.00	93.75	16.35	0.00	-93.75	150	145	Vertical

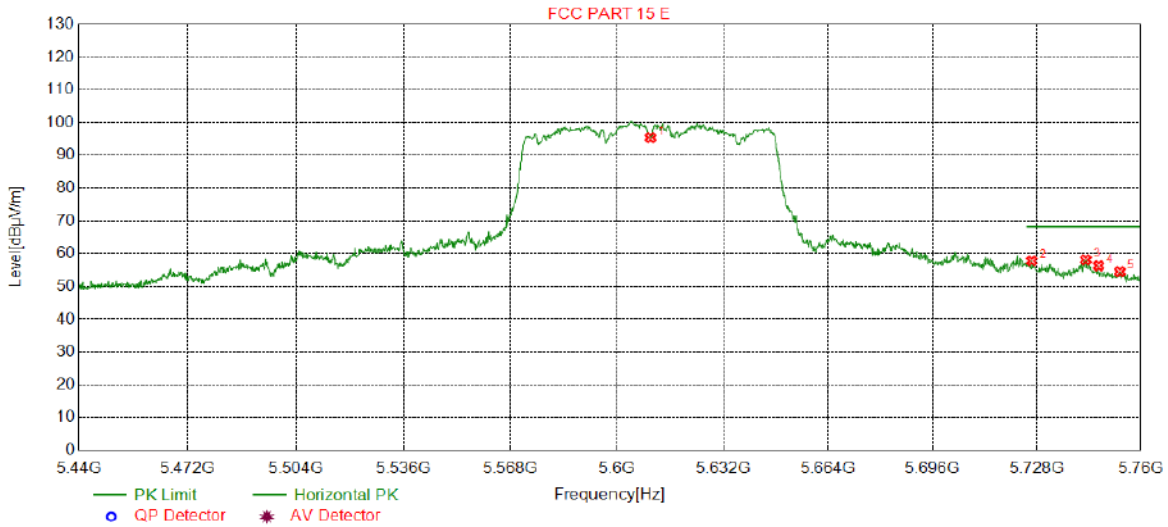
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4.10.1.94 802.11AC80_Channel 122

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	95.41	16.58	0.00	-95.41	150	162	Horizontal
2	5726.38	57.82	16.97	68.30	10.48	150	78	Horizontal
3	5743.03	58.14	17.08	68.30	10.16	150	74	Horizontal
4	5747.03	56.32	17.10	68.30	11.98	150	74	Horizontal
5	5753.59	54.52	17.13	68.30	13.78	150	240	Horizontal

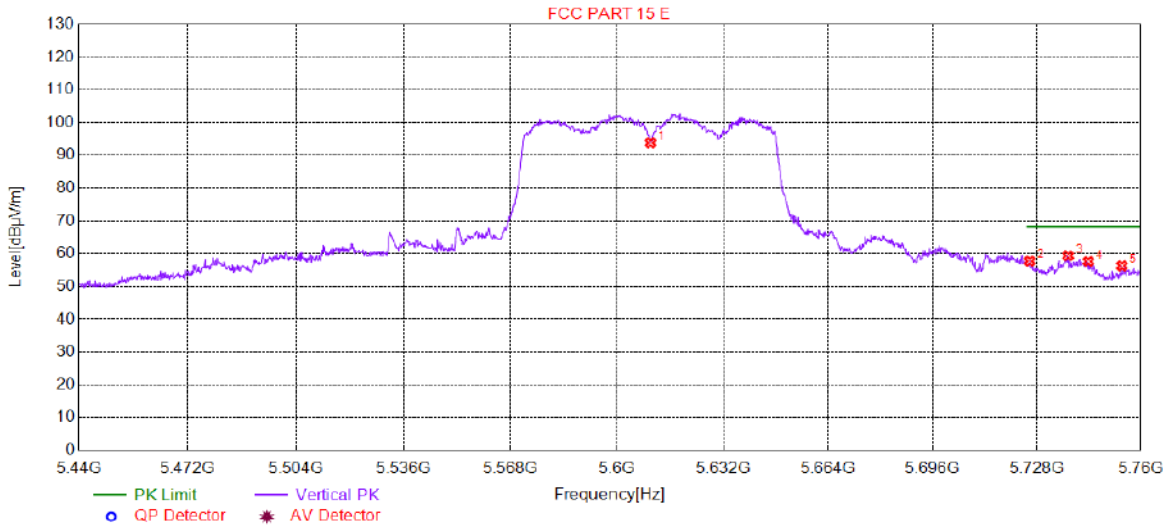
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4.10.1.95 802.11AC80_Channel 122

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	93.82	16.58	0.00	-93.82	150	150	Vertical
2	5725.74	57.73	16.96	68.30	10.57	150	331	Vertical
3	5737.58	59.40	17.04	68.30	8.90	150	31	Vertical
4	5743.83	57.63	17.08	68.30	10.67	150	344	Vertical
5	5754.23	56.30	17.13	68.30	12.00	150	31	Vertical

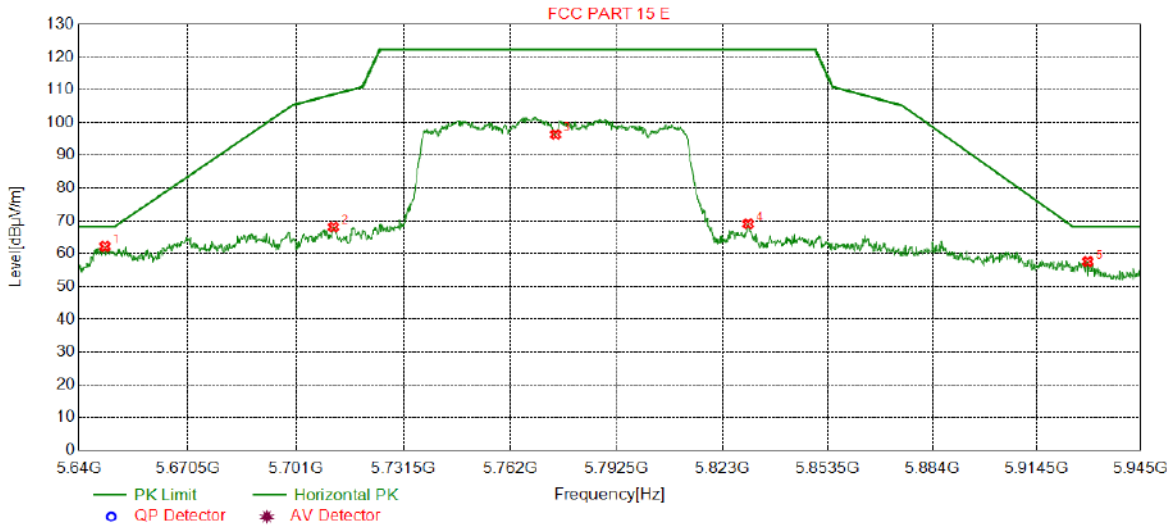
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4.10.1.97 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.32	62.24	16.53	68.30	6.06	150	71	Horizontal
2	5711.71	68.16	16.87	108.58	40.42	150	76	Horizontal
3	5775.00	96.37	17.16	122.30	25.93	150	196	Horizontal
4	5830.41	69.11	17.23	122.30	53.19	150	85	Horizontal
5	5929.43	57.59	17.56	68.30	10.71	150	80	Horizontal

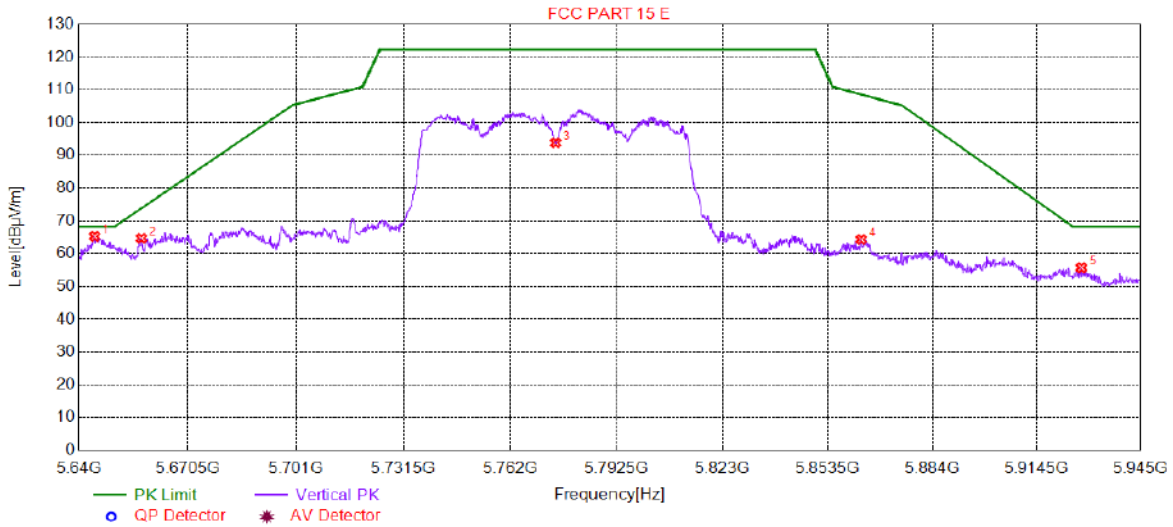
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4.10.1.98 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.42	65.29	16.54	68.30	3.01	150	26	Vertical
2	5657.54	64.68	16.57	73.88	9.20	150	21	Vertical
3	5775.00	93.81	17.16	122.30	28.49	150	151	Vertical
4	5863.21	64.32	17.22	108.60	44.28	150	31	Vertical
5	5927.60	55.71	17.54	68.30	12.59	150	285	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	5805
V nom(V)	5180.000746	5825.007261
V max(V)	5180.006382	5825.013795
V min(V)	5180.007268	5825.018294
Max. Deviation Frequency	0.007268	0.018294
Max. Frequency Error (ppm)	1.403022	3.140578

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5805
-5	5180.001143	5825.009871
5	5180.002967	5825.019729
15	5180.012881	5825.020124
25	5180.022526	5825.026564
35	5180.028903	5825.031403
45	5180.031475	5825.037761
50	5180.032268	5825.046462
Max. Deviation Frequency	0.032268	0.046462
Max. Frequency Error (ppm)	6.229358	7.976337



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>		



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>Note 3: 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

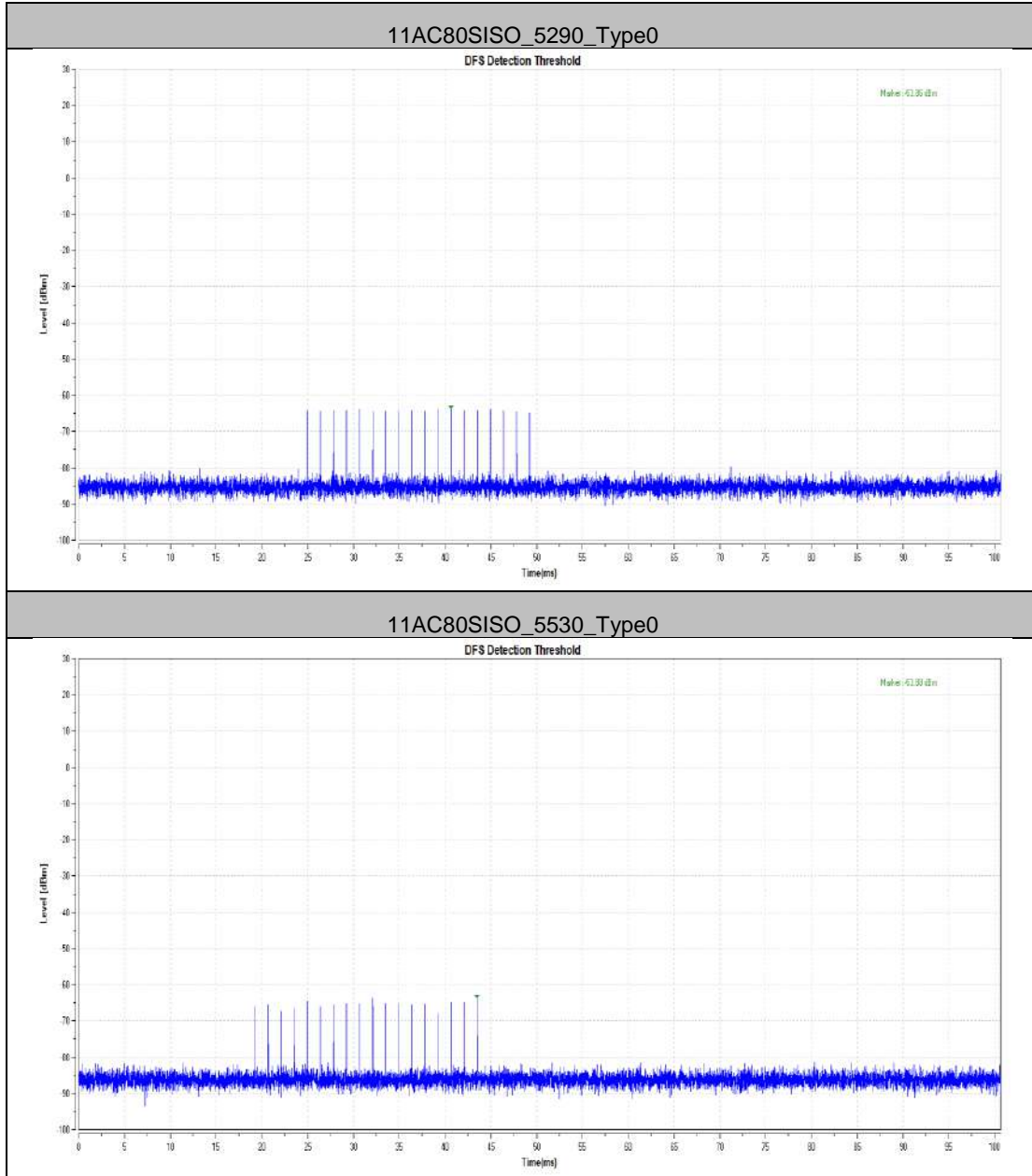
Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 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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4.12.4 Test plots
4.12.4.1 Radar Waveform Calibration Result

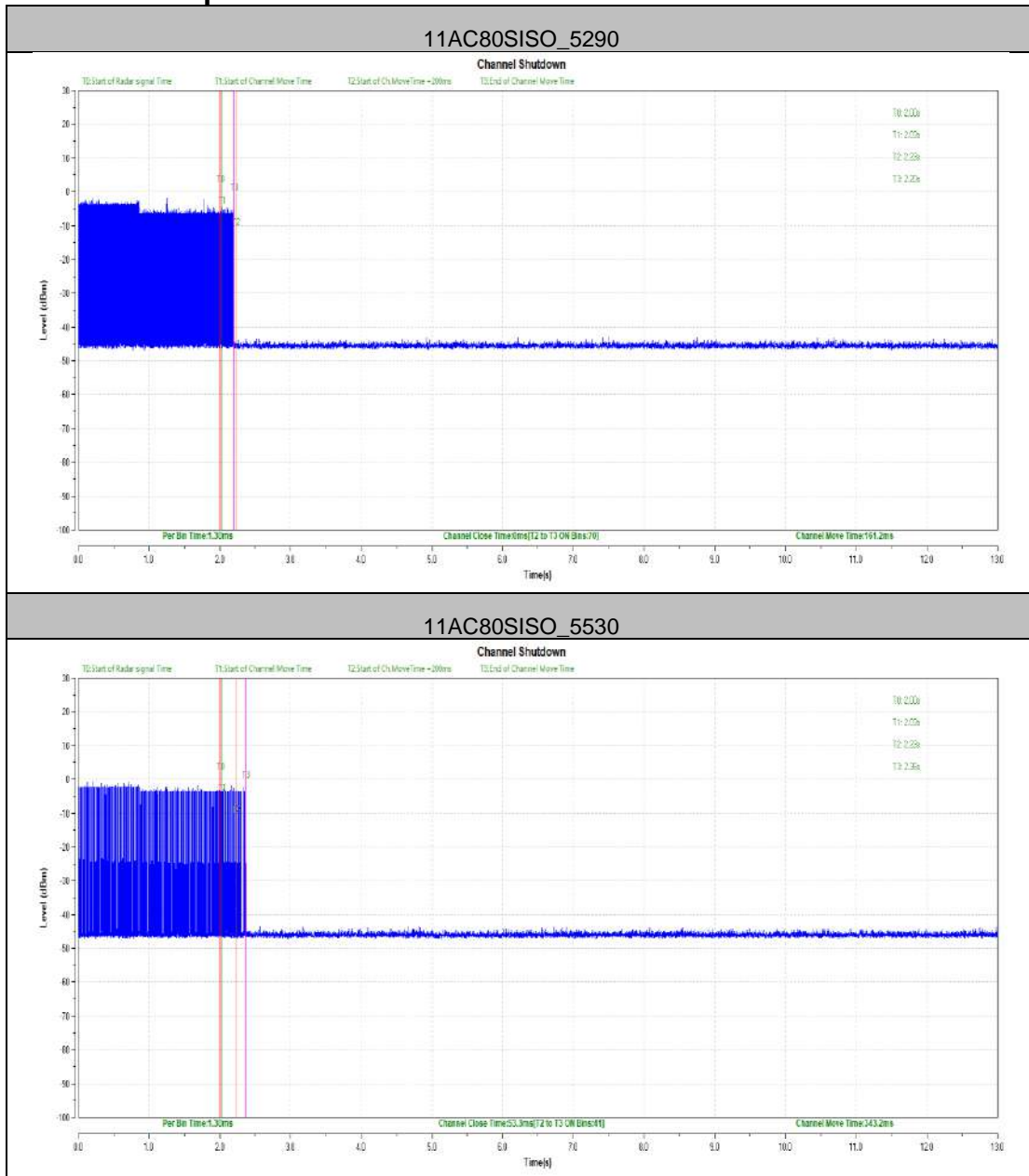


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Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5290MHz	Channel Move Time	0.161s	<10s	Pass
	Channel Closing Transmission Time	0ms	<60ms	Pass
80MHz / 5530MHz	Channel Move Time	0.343s	<10s	Pass
	Channel Closing Transmission Time	53.3ms	<60ms	Pass

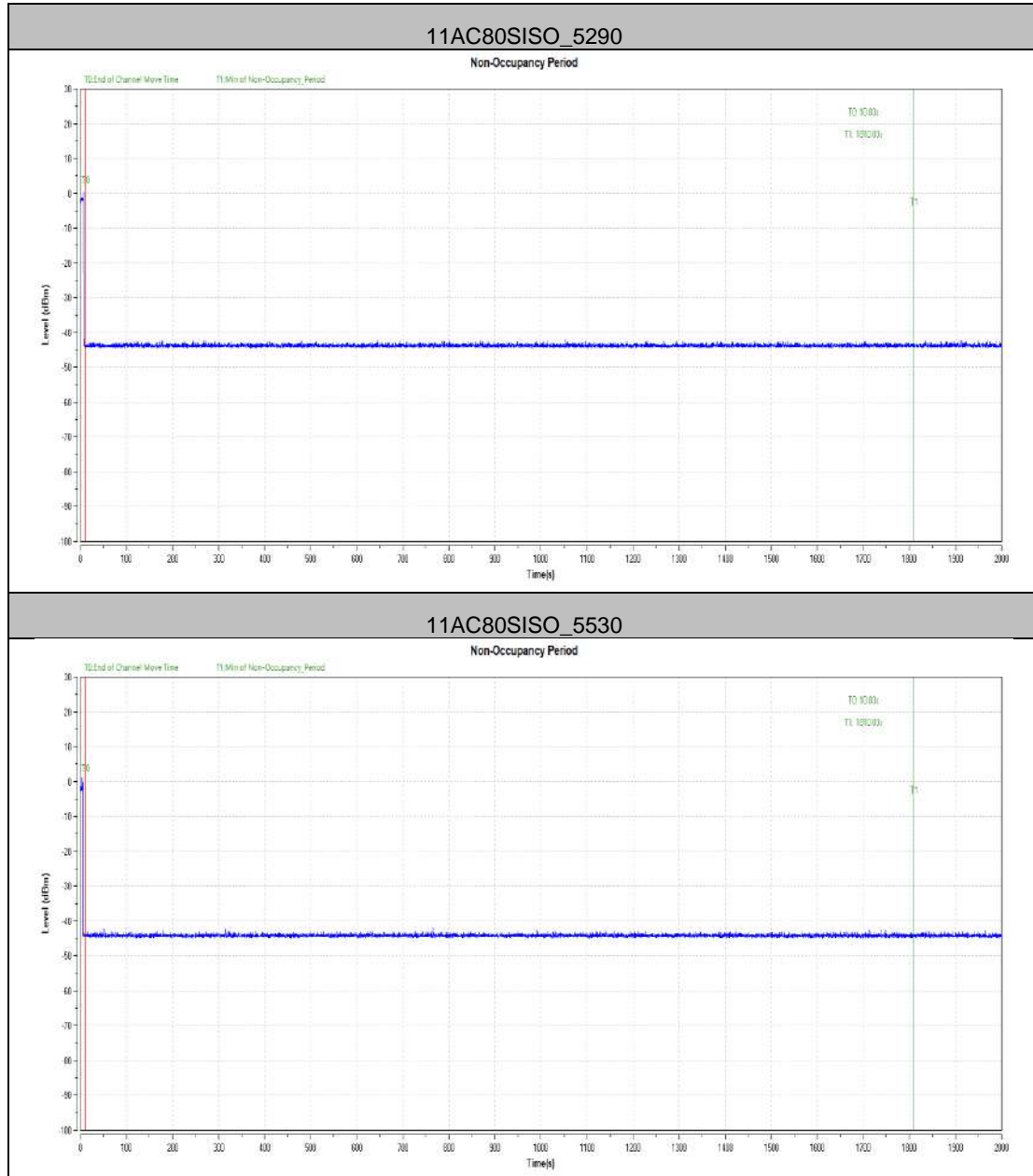
4.12.4.2 Test plots



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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	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-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	2017/10/17	2020/10/16
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	2019/10/20	2020/10/19
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



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7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/60037.

The End



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