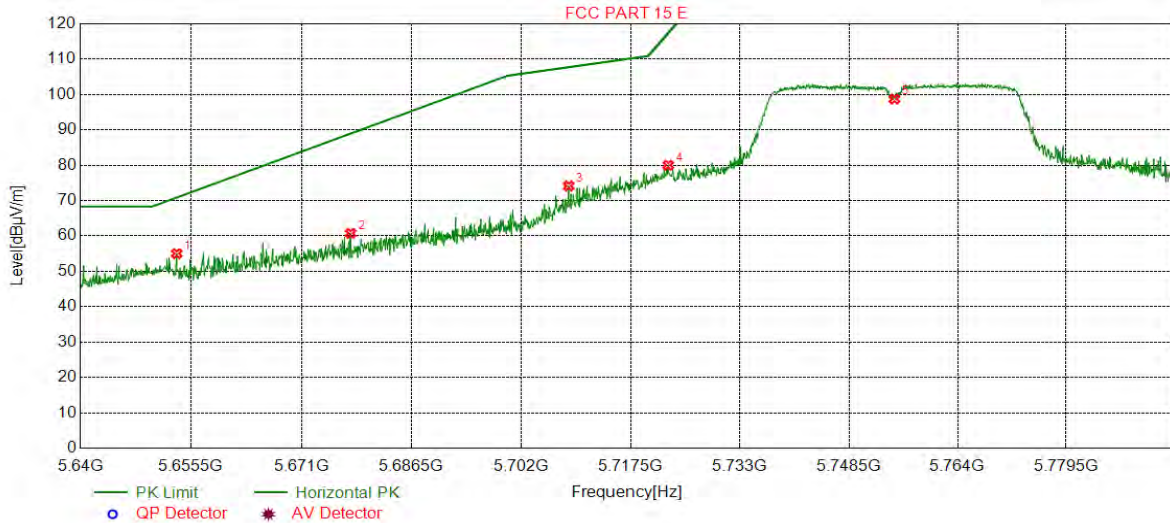




4.10.1.52 11N40_151 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5653.4917	55.03	16.55	70.88	15.85	182	64	Horizontal
2	5677.9165	60.77	16.68	88.96	28.19	210	340	Horizontal
3	5708.6994	74.15	16.86	107.74	33.59	137	344	Horizontal
4	5722.8114	80.02	16.95	117.31	37.29	269	46	Horizontal
5	5755.0000	98.70	17.13	0.00	-98.70	174	336	Horizontal



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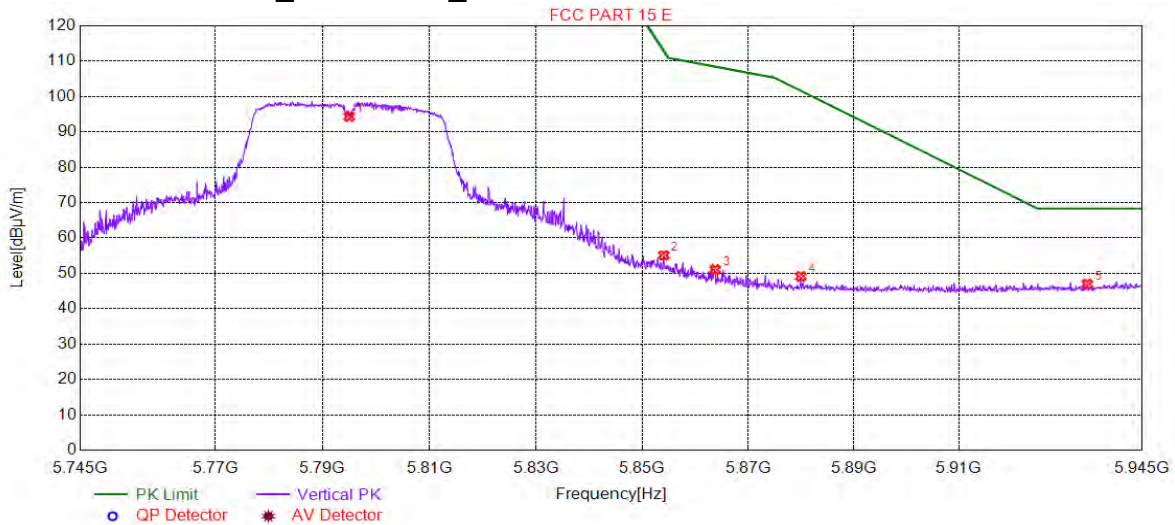
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4.10.1.53 11N40_159 ANT 1_Vertical



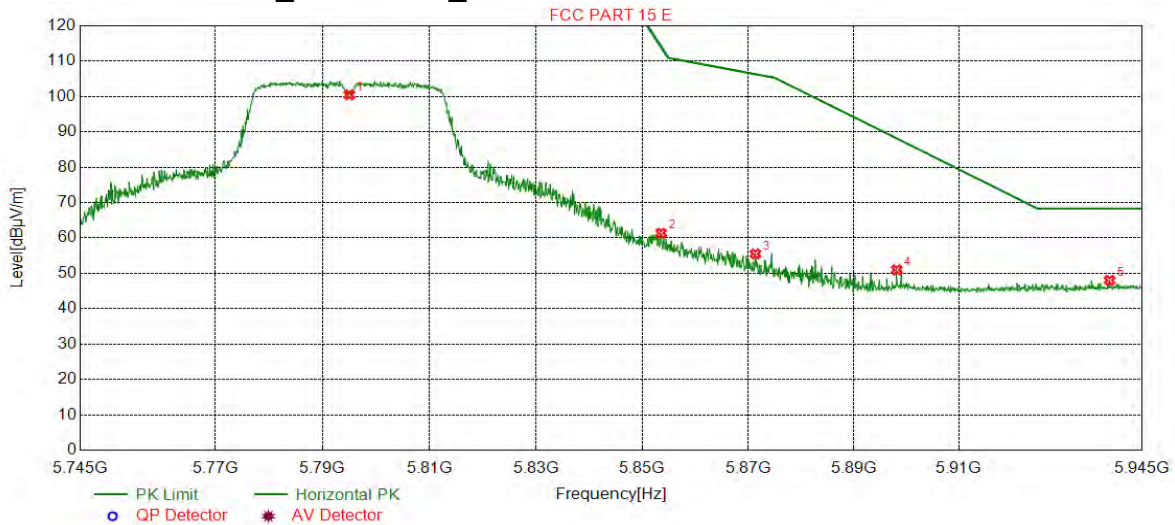
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.0000	94.36	17.18	0.00	-94.36	172	20	Vertical
2	5854.0545	55.10	17.25	113.06	57.96	227	39	Vertical
3	5863.7594	51.05	17.22	108.45	57.40	203	351	Vertical
4	5879.9675	49.12	17.17	101.62	52.50	270	351	Vertical
5	5934.4947	46.98	17.64	68.30	21.32	174	16	Vertical





4.10.1.54 11N40_159 ANT 1_ Horizontal



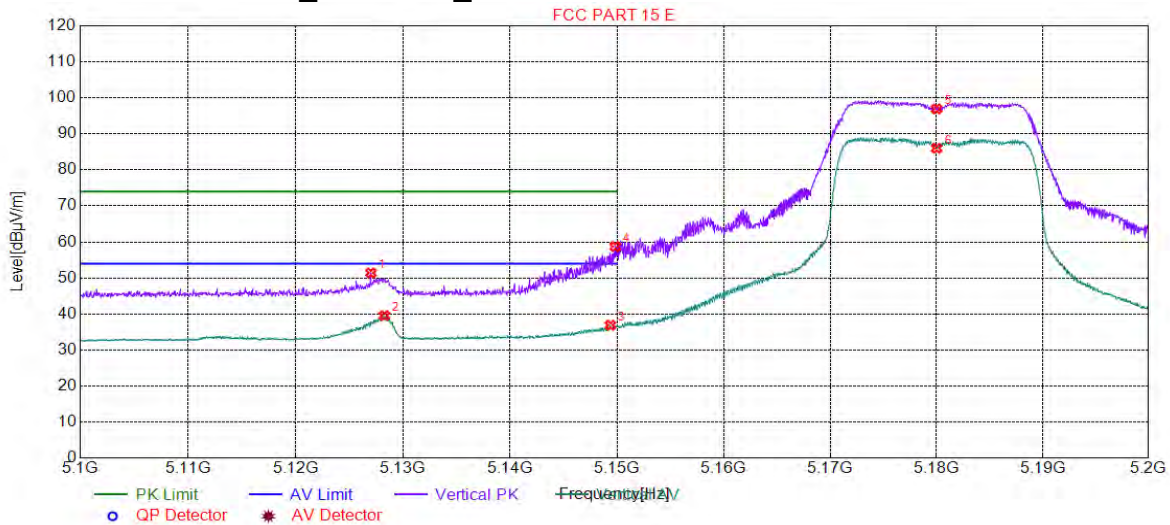
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.0000	100.48	17.18	0.00	-100.48	244	37	Horizontal
2	5853.5543	61.38	17.25	114.20	52.82	201	51	Horizontal
3	5871.3632	55.52	17.20	106.32	50.80	189	42	Horizontal
4	5898.1766	51.00	17.12	88.15	37.15	212	51	Horizontal
5	5938.7969	48.04	17.71	68.30	20.26	162	294	Horizontal





4.10.1.55 11AC20_36 ANT 1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5127.0135	51.40	15.32	74.00	22.60	293	31	Vertical
2	5128.2641	39.54	15.33	54.00	14.46	284	36	Vertical
3	5149.3747	36.88	15.51	54.00	17.12	242	31	Vertical
4	5149.8249	58.72	15.52	74.00	15.28	285	31	Vertical
5	5180.0000	96.93	15.56	0.00	-96.93	203	36	Vertical
6	5180.0000	86.00	15.56	0.00	-86.00	188	31	Vertical



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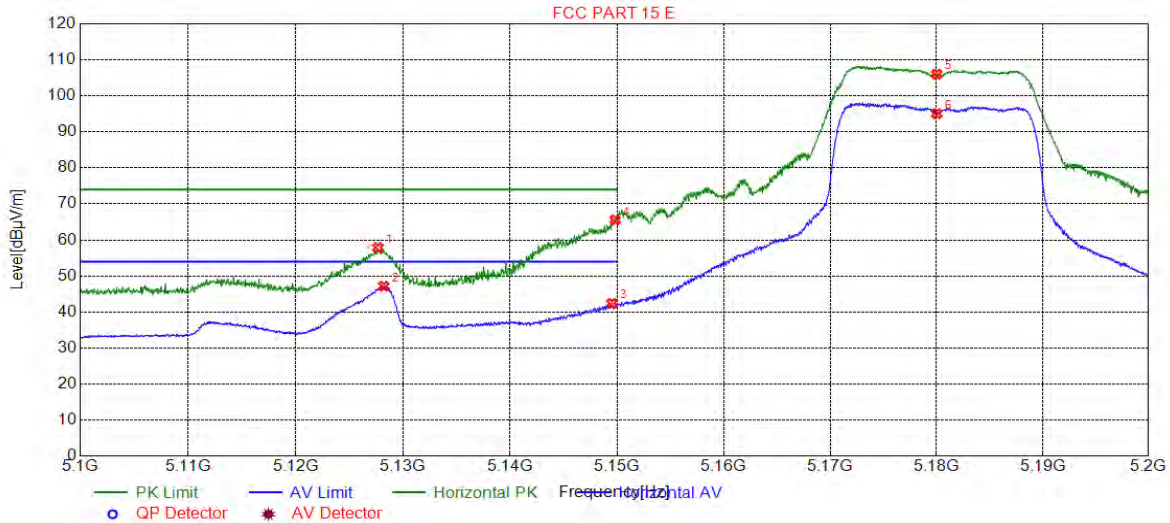
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4.10.1.56 11AC20_36 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5127.6638	57.88	15.33	74.00	16.12	154	345	Horizontal
2	5128.2141	47.16	15.33	54.00	6.84	173	345	Horizontal
3	5149.5248	42.40	15.52	54.00	11.60	123	345	Horizontal
4	5149.8249	65.57	15.52	74.00	8.43	129	351	Horizontal
5	5180.0000	106.03	15.56	0.00	-106.03	203	75	Horizontal
6	5180.0000	95.06	15.56	0.00	-95.06	209	75	Horizontal

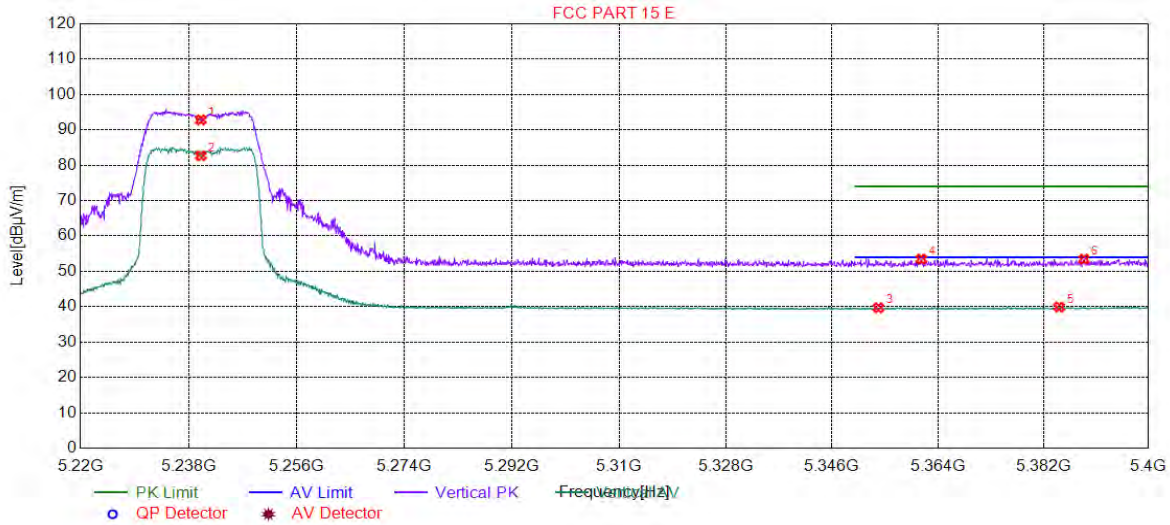


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4.10.1.57 11AC20_48 ANT 1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.0000	92.83	15.49	0.00	-92.83	292	34	Vertical
2	5240.0000	82.68	15.49	0.00	-82.68	228	247	Vertical
3	5353.8969	39.70	15.96	54.00	14.30	209	0	Vertical
4	5361.1906	53.48	16.01	74.00	20.52	280	344	Vertical
5	5384.6923	39.92	16.16	54.00	14.08	228	144	Vertical
6	5388.9245	53.45	16.18	74.00	20.55	216	289	Vertical



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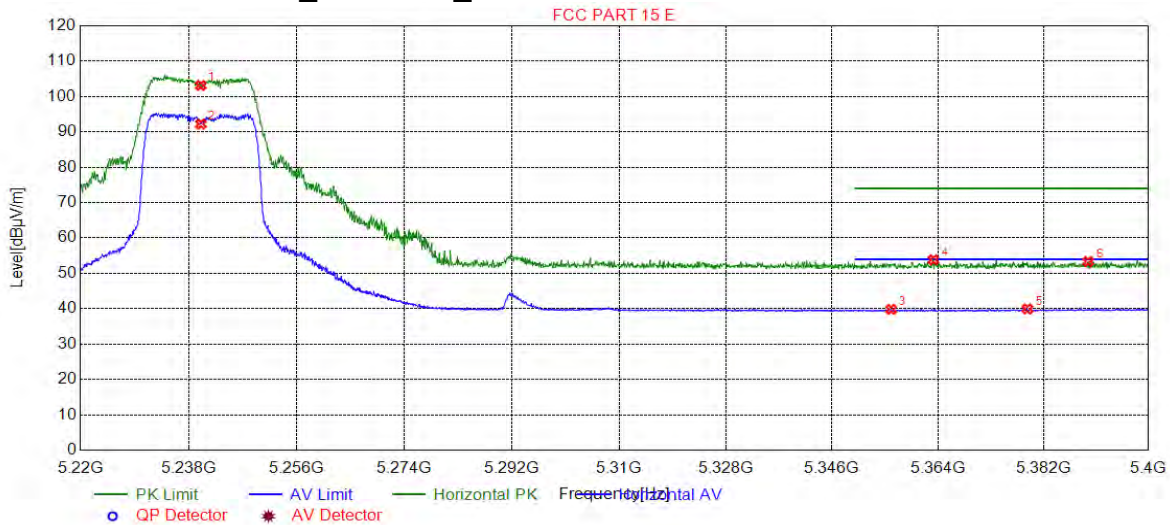
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4.10.1.58 11AC20_48 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.0000	103.14	15.49	0.00	-103.14	103	346	Horizontal
2	5240.0000	92.21	15.49	0.00	-92.21	125	70	Horizontal
3	5356.0580	39.80	15.98	54.00	14.20	185	29	Horizontal
4	5363.2616	53.83	16.02	74.00	20.17	185	299	Horizontal
5	5379.2896	39.94	16.12	54.00	14.06	116	264	Horizontal
6	5389.6448	53.34	16.19	74.00	20.66	191	182	Horizontal



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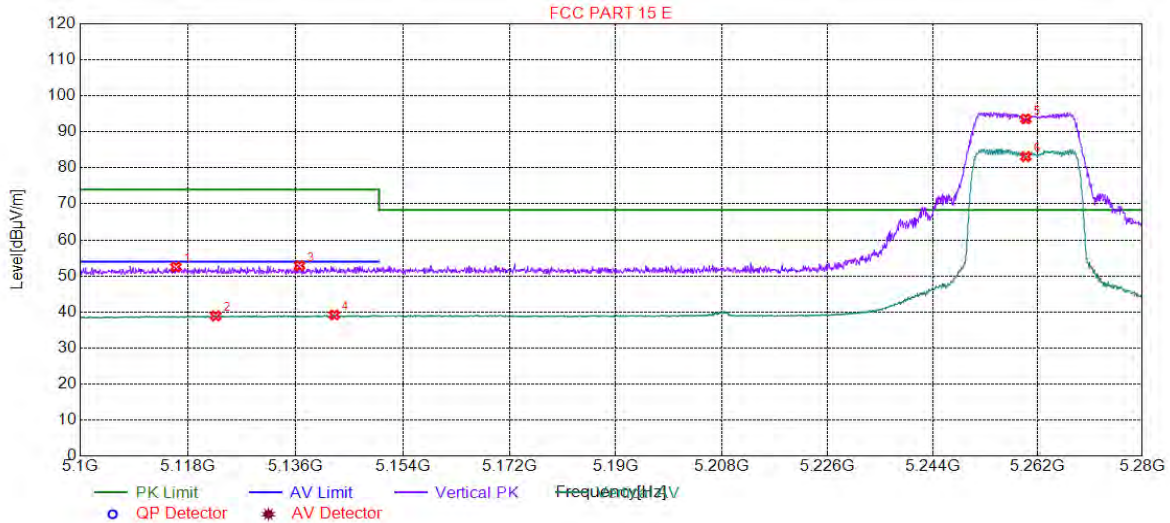
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4.10.1.59 11AC20_52 ANT 1_Vertical



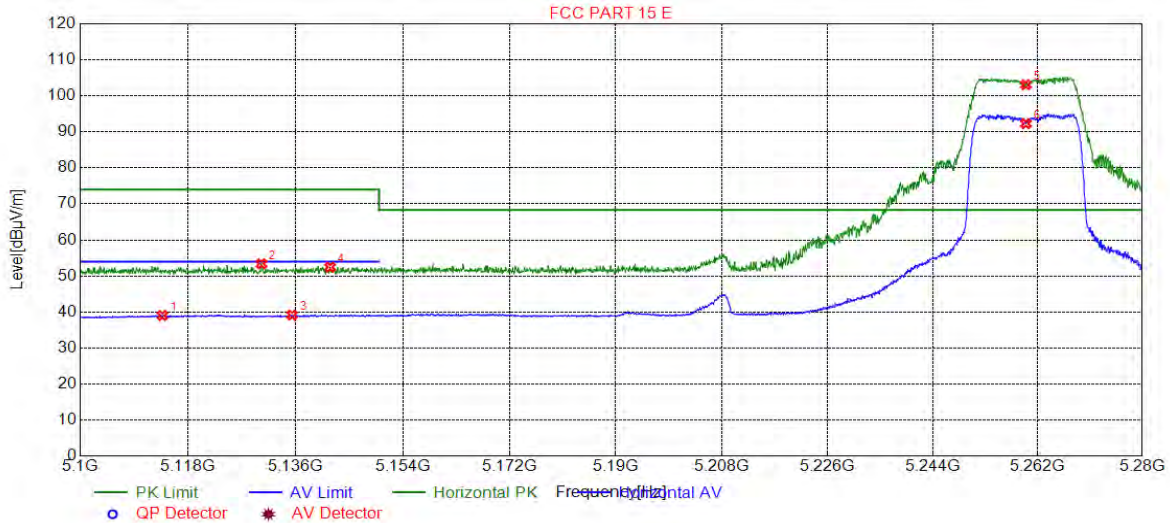
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5115.9380	52.48	15.23	74.00	21.52	192	56	Vertical
2	5122.6013	38.92	15.28	54.00	15.08	160	49	Vertical
3	5136.6483	52.86	15.41	74.00	21.14	231	235	Vertical
4	5142.5013	39.18	15.46	54.00	14.82	172	146	Vertical
5	5260.0000	93.60	15.51	68.30	-25.30	271	36	Vertical
6	5260.0000	83.13	15.51	0.00	-83.13	167	36	Vertical





4.10.1.60 11AC20_52 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5113.6868	39.02	15.21	54.00	14.98	171	345	Horizontal
2	5130.2551	53.39	15.35	74.00	20.61	192	187	Horizontal
3	5135.3877	39.17	15.39	54.00	14.83	298	152	Horizontal
4	5141.7809	52.44	15.45	74.00	21.56	288	152	Horizontal
5	5260.0000	103.08	15.51	68.30	-34.78	299	358	Horizontal
6	5260.0000	92.29	15.51	0.00	-92.29	152	352	Horizontal



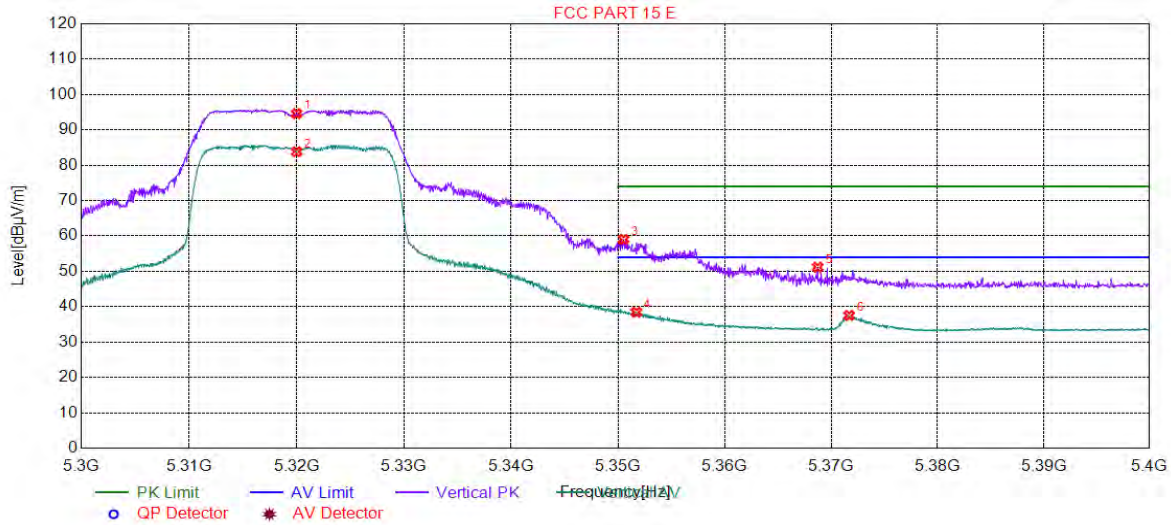
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4.10.1.61 11AC20_64 ANT 1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	94.59	15.80	0.00	-94.59	175	228	Vertical
2	5320.0000	83.84	15.80	0.00	-83.84	293	228	Vertical
3	5350.5253	59.05	15.94	74.00	14.95	182	208	Vertical
4	5351.7259	38.45	15.95	54.00	15.55	189	242	Vertical
5	5368.7344	51.16	16.06	74.00	22.84	226	344	Vertical
6	5371.6858	37.54	16.07	54.00	16.46	223	344	Vertical



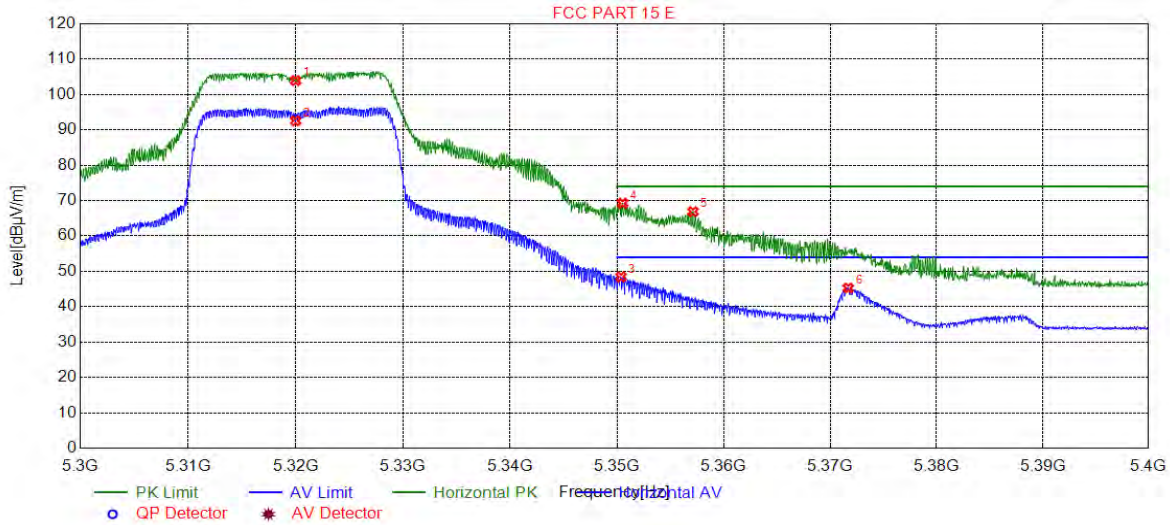
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4.10.1.62 11AC20_64 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	103.92	15.80	0.00	-103.92	130	352	Horizontal
2	5320.0000	92.56	15.80	0.00	-92.56	147	70	Horizontal
3	5350.3752	48.45	15.94	54.00	5.55	183	352	Horizontal
4	5350.5253	69.26	15.94	74.00	4.74	168	352	Horizontal
5	5357.1286	66.89	15.98	74.00	7.11	135	352	Horizontal
6	5371.6858	45.29	16.07	54.00	8.71	247	352	Horizontal



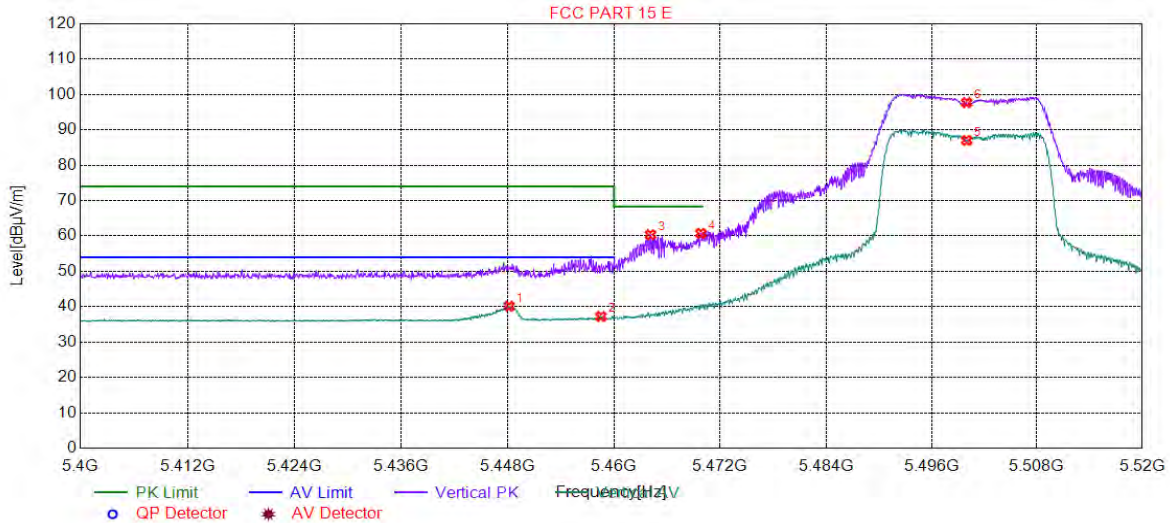
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4.10.1.63 11AC20_100 ANT 1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5448.1441	40.12	16.25	54.00	13.88	235	32	Vertical
2	5458.5293	37.24	16.25	54.00	16.76	199	32	Vertical
3	5464.1121	60.36	16.25	68.30	7.94	184	27	Vertical
4	5469.8149	60.75	16.25	68.30	7.55	243	27	Vertical
5	5500.0000	87.02	16.25	0.00	-87.02	273	27	Vertical
6	5500.0000	97.71	16.25	0.00	-97.71	206	32	Vertical



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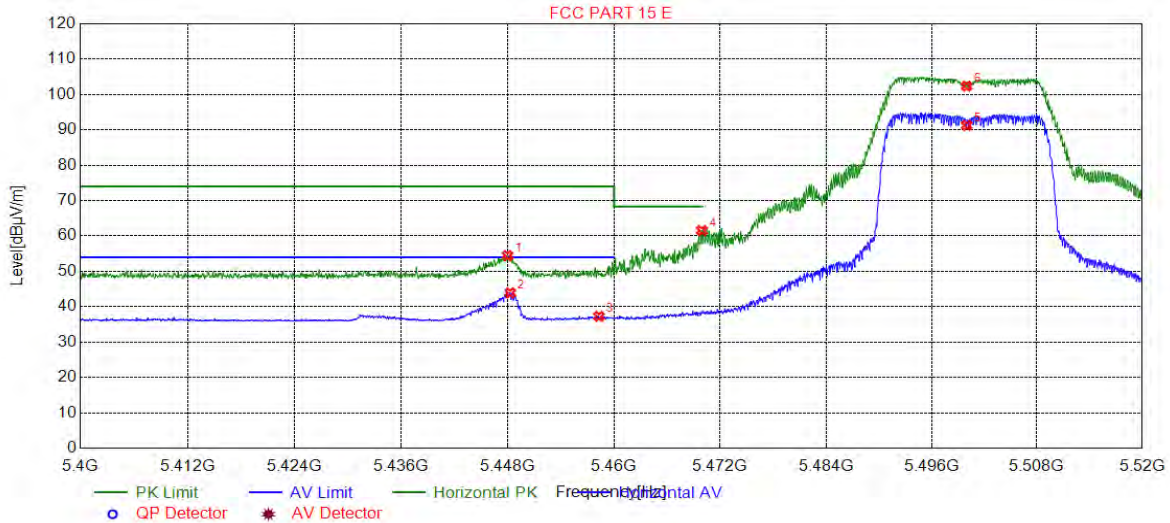
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4.10.1.64 11AC20_100 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5447.9640	54.46	16.25	74.00	19.54	205	349	Horizontal
2	5448.2641	43.92	16.25	54.00	10.08	155	349	Horizontal
3	5458.2891	37.27	16.25	54.00	16.73	195	355	Horizontal
4	5469.9350	61.54	16.25	68.30	6.76	110	349	Horizontal
5	5500.0000	91.28	16.25	0.00	-91.28	137	355	Horizontal
6	5500.0000	102.35	16.25	0.00	-102.35	130	355	Horizontal



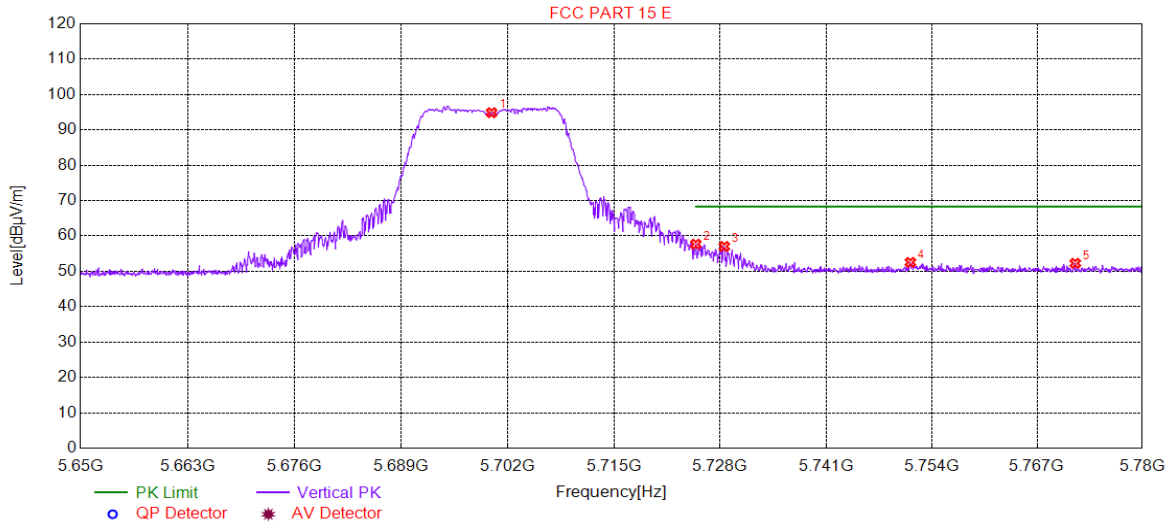
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4.10.1.65 11AC20_140 ANT 1_Vertical



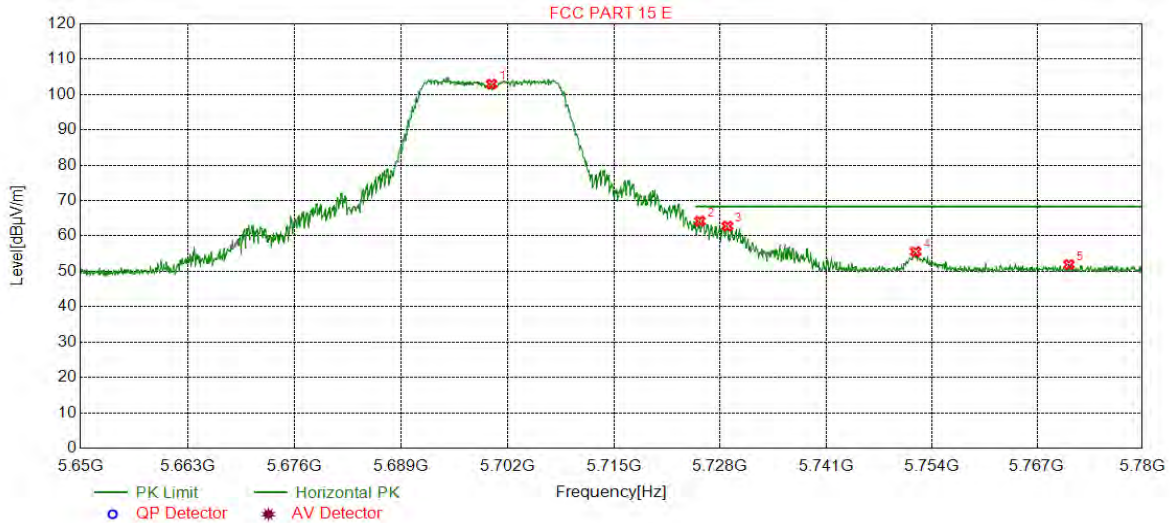
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	94.86	16.80	0.00	-94.86	180	344	Vertical
2	5725.0000	57.69	16.96	68.30	10.61	208	344	Vertical
3	5728.4942	57.04	16.98	68.30	11.26	257	344	Vertical
4	5751.3857	52.54	17.12	68.30	15.76	151	344	Vertical
5	5771.7409	52.28	17.15	68.30	16.02	299	344	Vertical





4.10.1.66 11AC20_140 ANT 1_ Horizontal



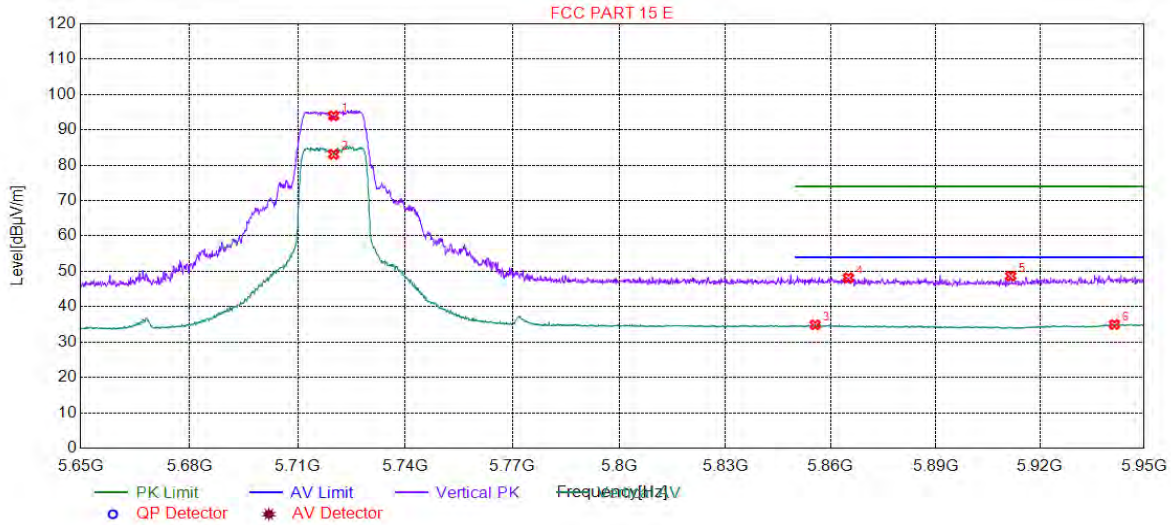
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	102.97	16.80	0.00	-102.97	236	358	Horizontal
2	5725.5028	64.21	16.96	68.30	4.09	126	358	Horizontal
3	5728.8844	62.78	16.98	68.30	5.52	135	356	Horizontal
4	5752.0360	55.56	17.12	68.30	12.74	177	358	Horizontal
5	5770.9605	51.95	17.15	68.30	16.35	102	310	Horizontal





4.10.1.67 11AC20_144 ANT 1_Vertical



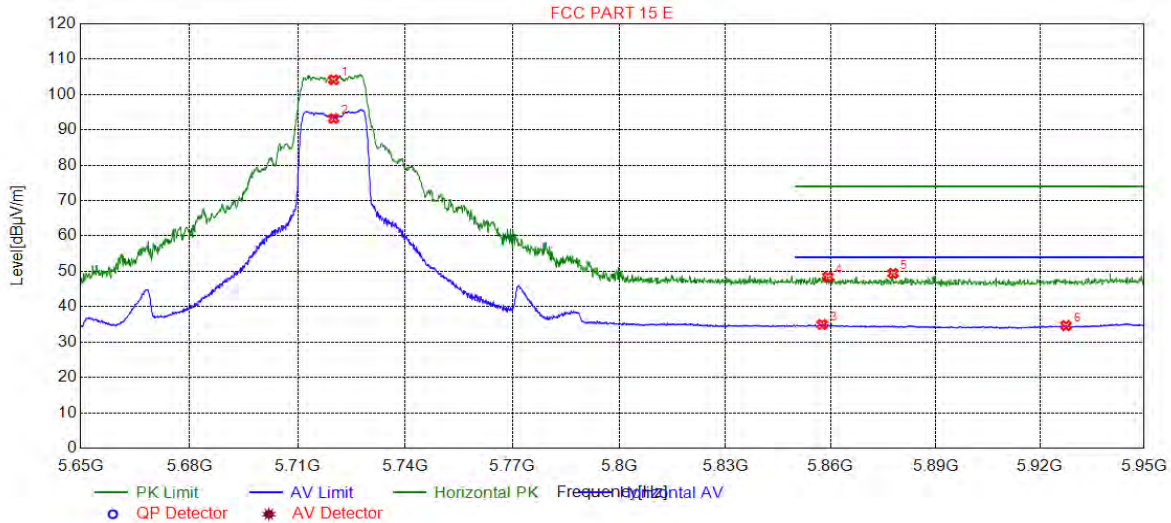
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.0000	93.98	16.93	0.00	-93.98	268	36	Vertical
2	5720.0000	83.08	16.93	0.00	-83.08	176	36	Vertical
3	5855.6028	34.90	17.24	54.00	19.10	164	104	Vertical
4	5865.0575	48.18	17.21	74.00	25.82	195	208	Vertical
5	5911.5808	48.70	17.29	74.00	25.30	247	270	Vertical
6	5941.4457	34.99	17.75	54.00	19.01	233	195	Vertical





4.10.1.68 11AC20_144 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.0000	104.16	16.93	0.00	-104.16	220	344	Horizontal
2	5720.0000	93.22	16.93	0.00	-93.22	178	344	Horizontal
3	5857.5538	34.99	17.24	54.00	19.01	178	14	Horizontal
4	5859.2046	48.43	17.23	74.00	25.57	153	131	Horizontal
5	5877.8139	49.41	17.18	74.00	24.59	187	344	Horizontal
6	5927.4887	34.67	17.53	54.00	19.33	235	92	Horizontal



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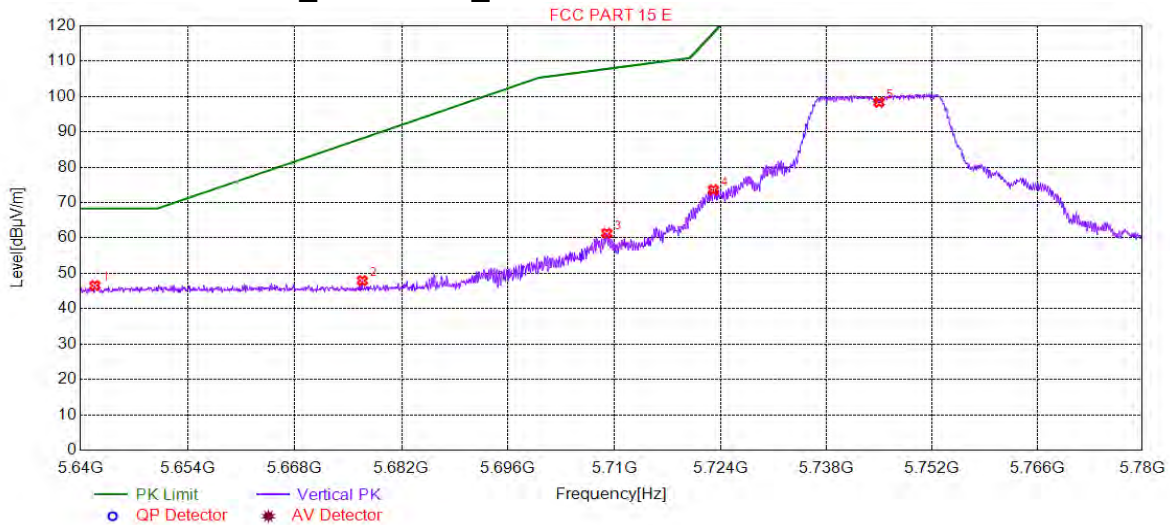
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4.10.1.69 11AC20_149 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5641.8909	46.56	16.54	68.30	21.74	212	295	Vertical
2	5676.8384	47.94	16.67	88.16	40.22	280	77	Vertical
3	5708.9845	61.35	16.86	107.82	46.47	184	344	Vertical
4	5723.0615	73.62	16.95	117.88	44.26	202	344	Vertical
5	5745.0000	98.37	17.09	0.00	-98.37	226	344	Vertical



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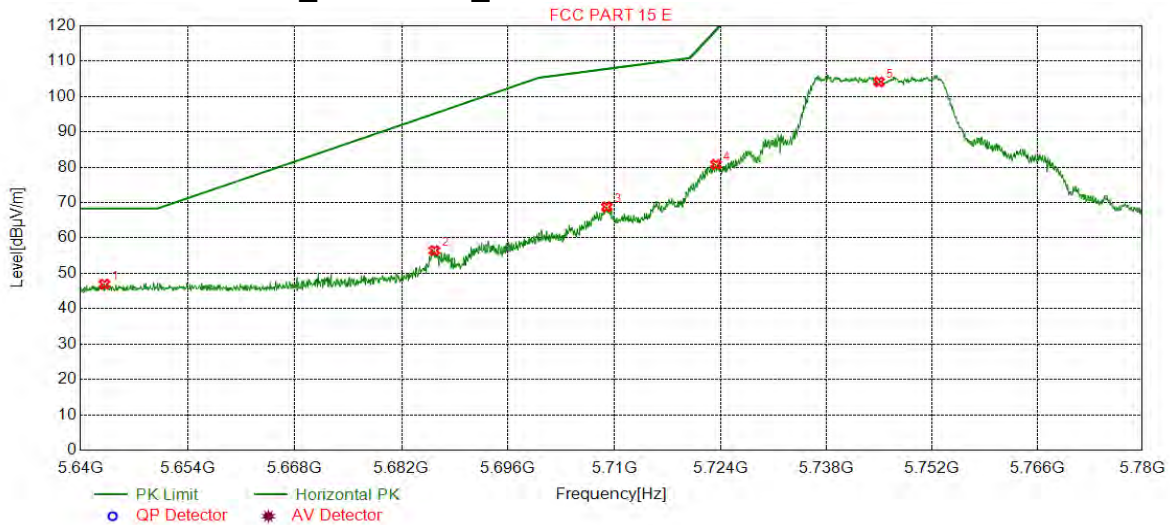
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4.10.1.70 11AC20_149 ANT 1_ Horizontal



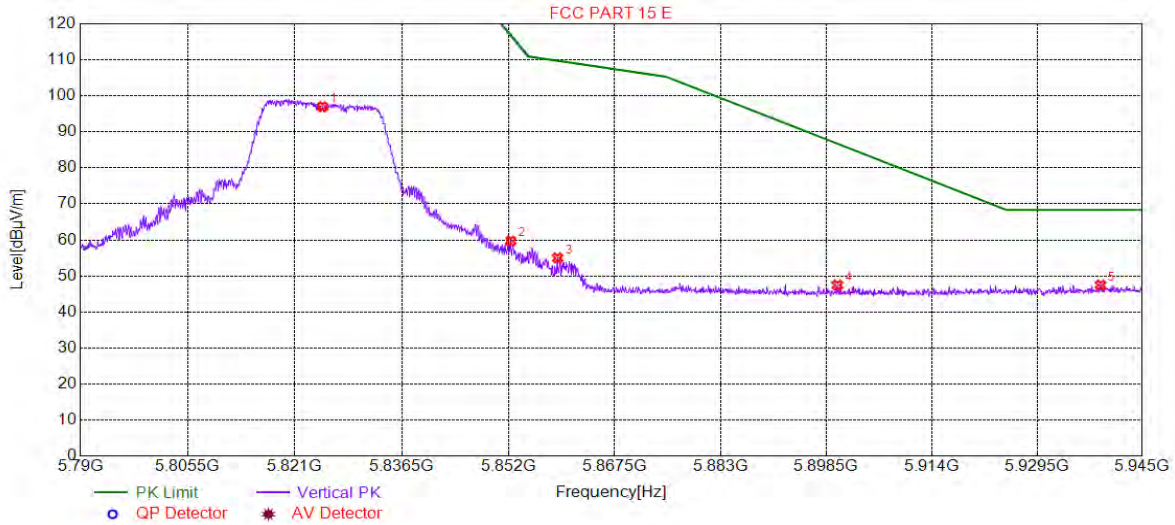
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.1516	46.96	16.54	68.30	21.34	191	80	Horizontal
2	5686.2931	56.46	16.73	95.16	38.70	108	359	Horizontal
3	5708.9845	68.79	16.86	107.82	39.03	166	356	Horizontal
4	5723.4117	80.80	16.95	118.68	37.88	116	356	Horizontal
5	5745.0000	104.14	17.09	0.00	-104.14	122	352	Horizontal





4.10.1.71 11AC20_165 ANT 1_Vertical



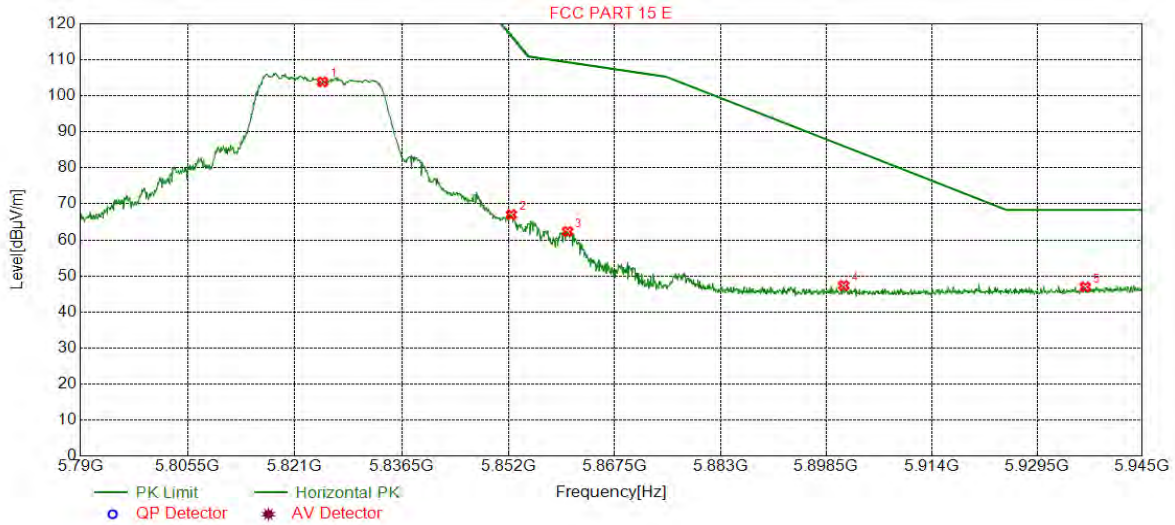
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	96.99	17.23	0.00	-96.99	283	58	Vertical
2	5852.3412	59.71	17.25	116.96	57.25	205	54	Vertical
3	5859.1646	55.02	17.23	109.73	54.71	202	54	Vertical
4	5900.1051	47.45	17.11	86.72	39.27	167	193	Vertical
5	5938.8744	47.49	17.71	68.30	20.81	251	142	Vertical





4.10.1.72 11AC20_165 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	103.86	17.23	0.00	-103.86	172	360	Horizontal
2	5852.4187	67.02	17.25	116.79	49.77	247	358	Horizontal
3	5860.6378	62.34	17.23	109.32	46.98	247	360	Horizontal
4	5901.0355	47.35	17.13	86.03	38.68	173	154	Horizontal
5	5936.6258	46.95	17.67	68.30	21.35	147	80	Horizontal



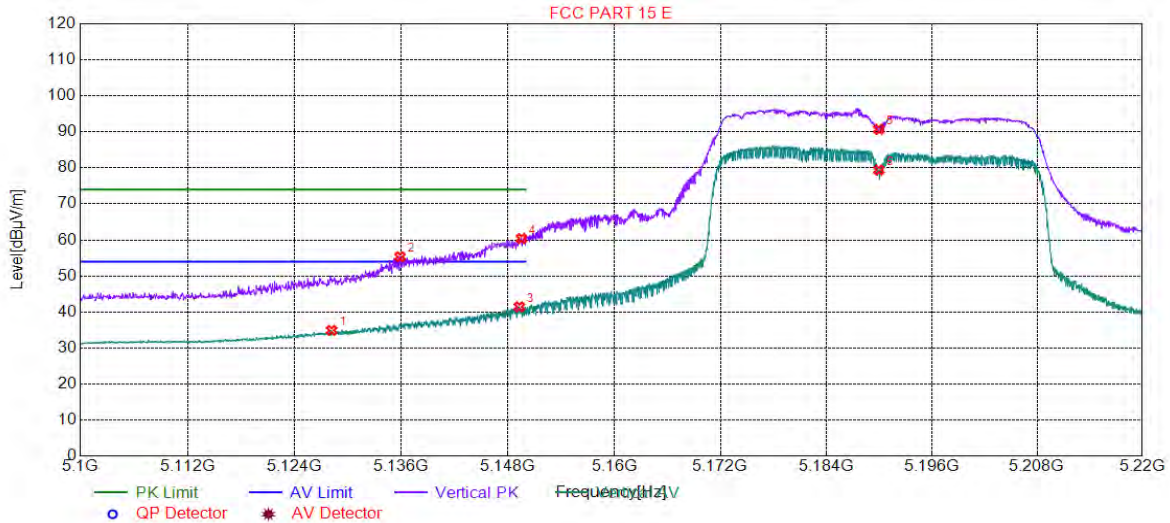
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4.10.1.73 11AC40_38 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5128.1541	34.90	15.33	54.00	19.10	276	33	Vertical
2	5135.8379	55.35	15.40	74.00	18.65	279	33	Vertical
3	5149.2846	41.45	15.51	54.00	12.55	201	33	Vertical
4	5149.5248	60.41	15.52	74.00	13.59	263	27	Vertical
5	5190.0000	90.70	15.58	0.00	-90.70	202	33	Vertical
6	5190.0000	79.42	15.58	0.00	-79.42	155	33	Vertical



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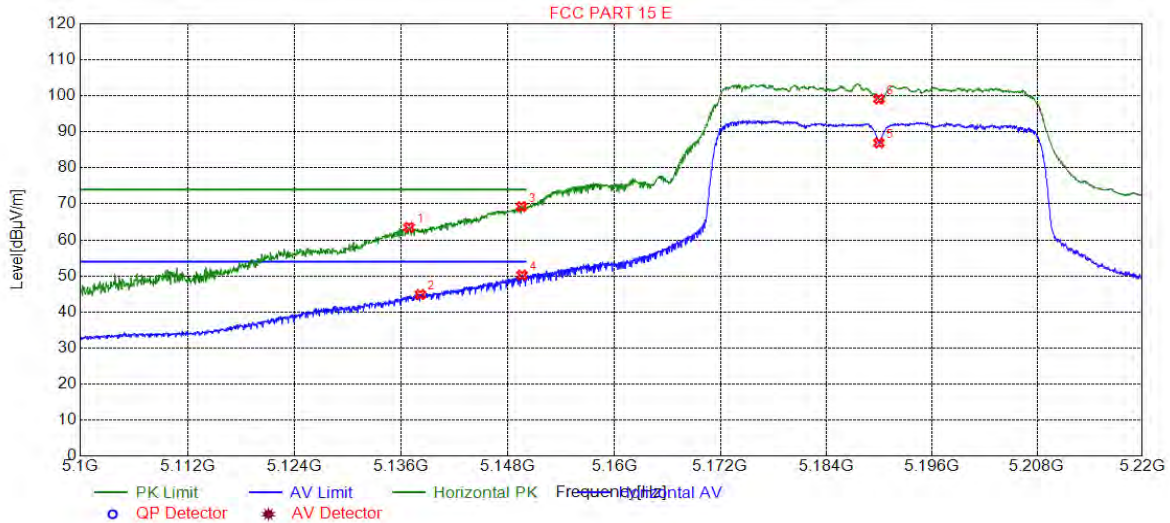
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4.10.1.74 11AC40_38 ANT 1_ Horizontal



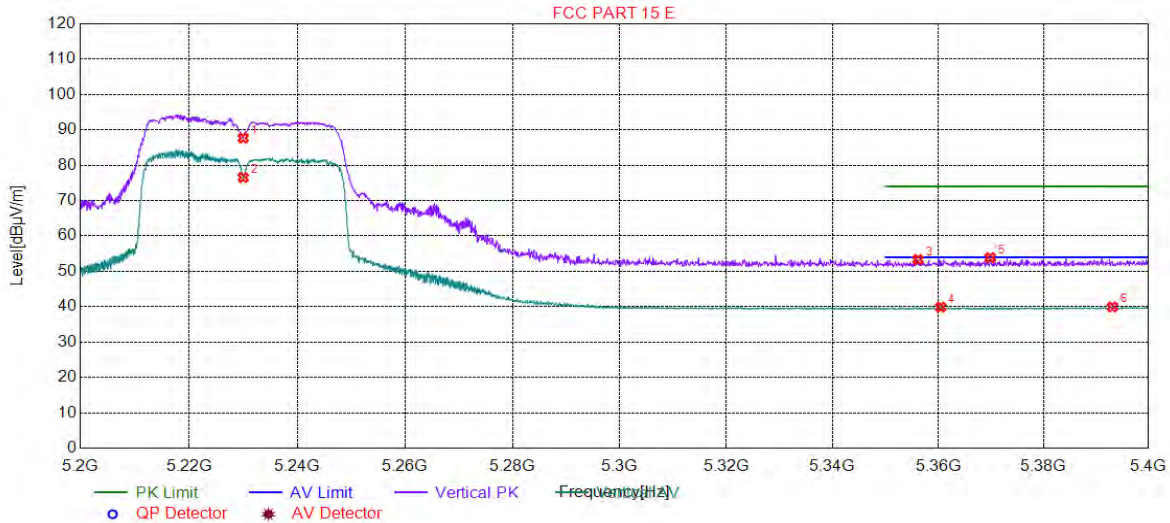
Suspected List

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1	5136.8584	63.49	15.41	74.00	10.51	202	350	Horizontal
2	5138.1191	44.83	15.42	54.00	9.17	104	14	Horizontal
3	5149.5248	69.25	15.52	74.00	4.75	105	14	Horizontal
4	5149.5848	50.25	15.52	54.00	3.75	243	14	Horizontal
5	5190.0000	86.92	15.58	0.00	-86.92	246	344	Horizontal
6	5190.0000	99.11	15.58	0.00	-99.11	159	74	Horizontal





4.10.1.75 11AC40_46 ANT 1_ Vertical



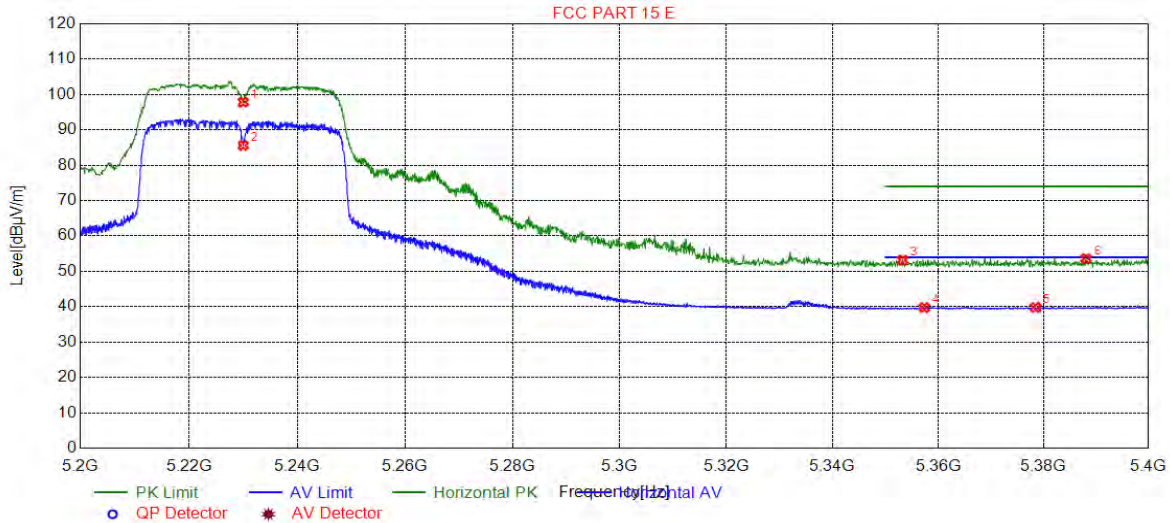
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.0000	87.68	15.51	0.00	-87.68	151	28	Vertical
2	5230.0000	76.53	15.51	0.00	-76.53	199	241	Vertical
3	5356.1781	53.32	15.98	74.00	20.68	156	255	Vertical
4	5360.4802	39.88	16.00	54.00	14.12	273	234	Vertical
5	5369.8849	53.87	16.06	74.00	20.13	189	248	Vertical
6	5393.0965	39.95	16.21	54.00	14.05	244	192	Vertical





4.10.1.76 11AC40_46 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.0000	97.84	15.51	0.00	-97.84	154	77	Horizontal
2	5230.0000	85.61	15.51	0.00	-85.61	103	346	Horizontal
3	5353.2766	53.18	15.96	74.00	20.82	225	160	Horizontal
4	5357.3787	39.74	15.99	54.00	14.26	203	353	Horizontal
5	5378.4892	39.78	16.12	54.00	14.22	146	125	Horizontal
6	5388.0940	53.61	16.18	74.00	20.39	226	283	Horizontal



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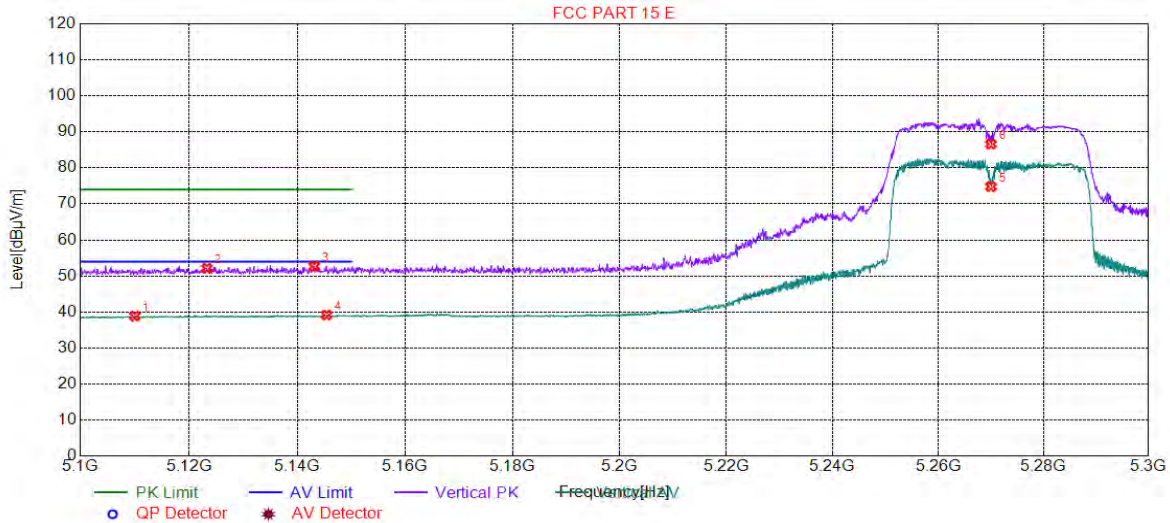
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4.10.1.77 11AC40_54 ANT 1_ Vertical



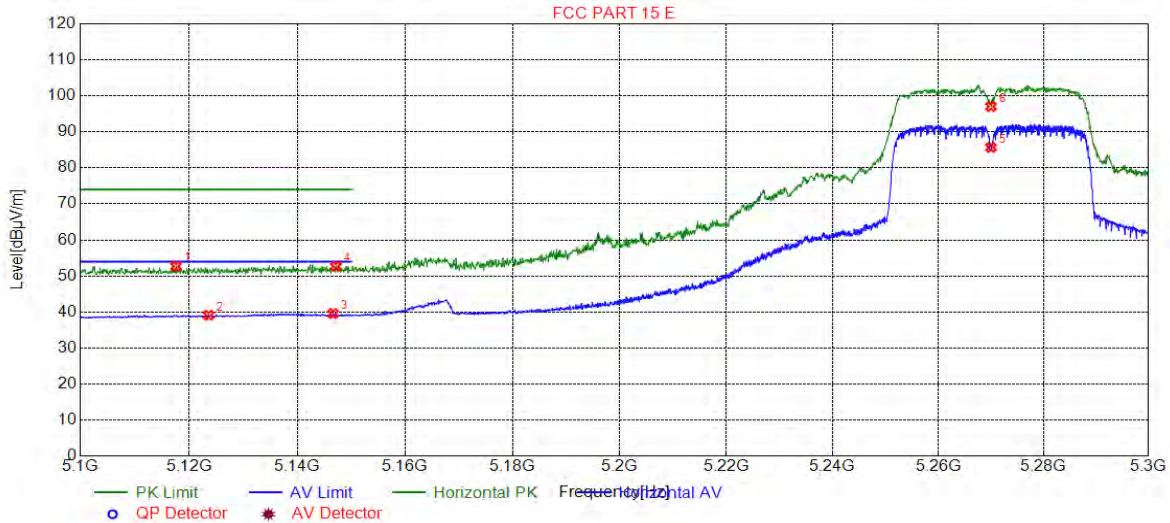
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5110.0050	38.87	15.18	54.00	15.13	227	188	Vertical
2	5123.3117	52.13	15.29	74.00	21.87	240	209	Vertical
3	5143.1216	52.68	15.46	74.00	21.32	224	105	Vertical
4	5145.4227	39.17	15.48	54.00	14.83	202	78	Vertical
5	5270.0000	74.81	15.56	0.00	-74.81	255	229	Vertical
6	5270.0000	86.60	15.56	0.00	-86.60	172	222	Vertical





4.10.1.78 11AC40_54 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5117.6088	52.67	15.24	74.00	21.33	114	188	Horizontal
2	5123.6118	39.11	15.29	54.00	14.89	221	57	Horizontal
3	5146.6233	39.58	15.49	54.00	14.42	186	346	Horizontal
4	5147.1236	52.69	15.50	74.00	21.31	204	360	Horizontal
5	5270.0000	85.69	15.56	0.00	-85.69	121	71	Horizontal
6	5270.0000	97.05	15.56	0.00	-97.05	203	71	Horizontal



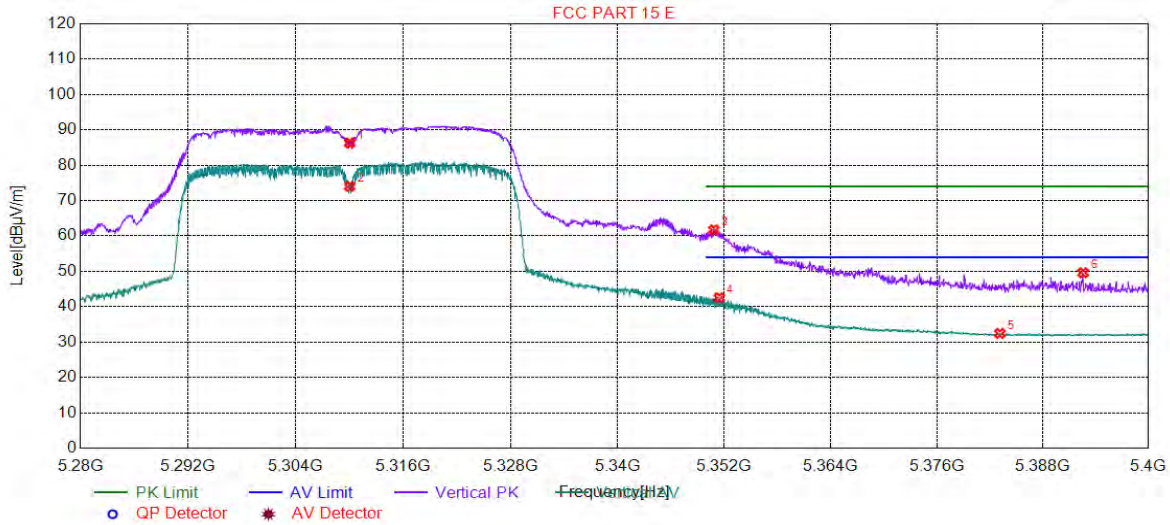
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4.10.1.79 11AC40_62 ANT 1_ Vertical



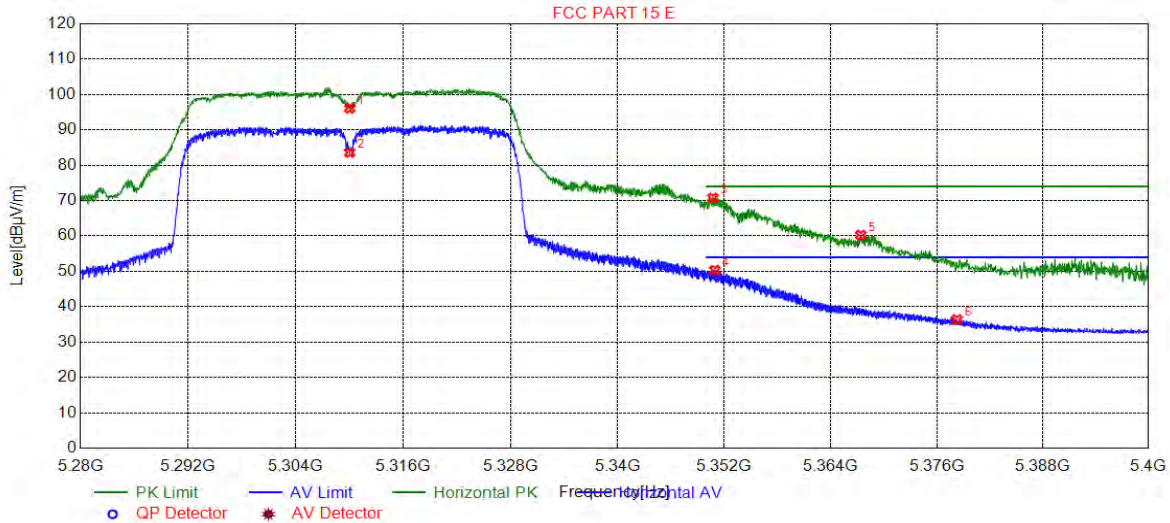
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.0000	86.30	15.75	0.00	-86.30	211	227	Vertical
2	5310.0000	74.02	15.75	0.00	-74.02	153	227	Vertical
3	5350.8354	61.76	15.95	74.00	12.24	257	206	Vertical
4	5351.4357	42.56	15.95	54.00	11.44	273	206	Vertical
5	5383.1316	32.44	16.15	54.00	21.56	236	32	Vertical
6	5392.5563	49.60	16.20	74.00	24.40	238	32	Vertical





4.10.1.80 11AC40_62 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.0000	96.10	15.75	0.00	-96.10	195	354	Horizontal
2	5310.0000	83.60	15.75	0.00	-83.60	175	354	Horizontal
3	5350.7154	70.73	15.94	74.00	3.27	222	354	Horizontal
4	5350.9555	50.31	15.95	54.00	3.69	134	354	Horizontal
5	5367.4037	60.25	16.05	74.00	13.75	102	354	Horizontal
6	5378.2691	36.34	16.12	54.00	17.66	124	348	Horizontal



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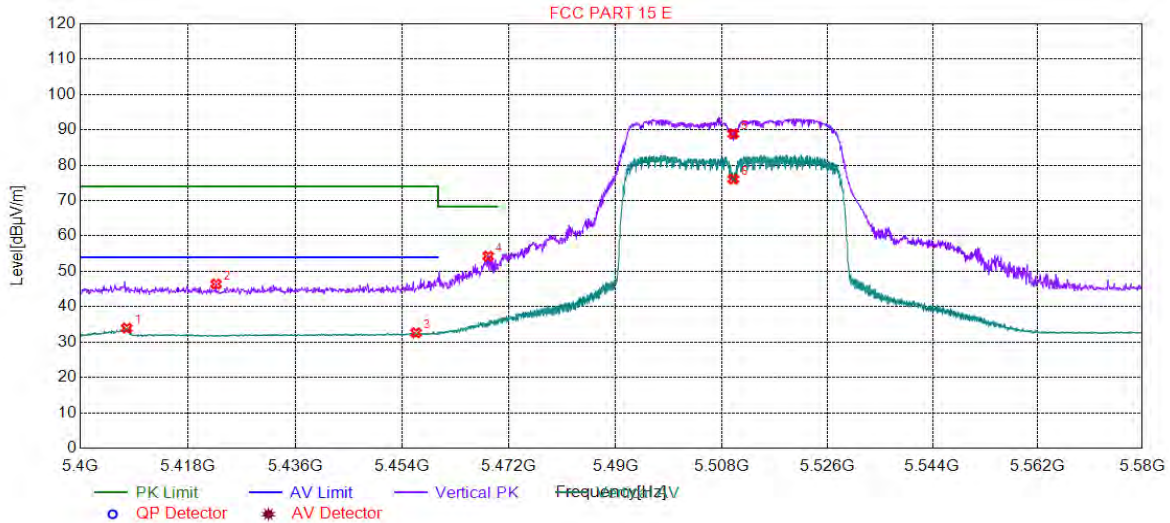
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4.10.1.81 11AC40_102 ANT 1_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5407.7439	33.95	16.25	54.00	20.05	217	28	Vertical
2	5422.6913	46.41	16.25	74.00	27.59	288	344	Vertical
3	5456.2781	32.63	16.25	54.00	21.37	175	344	Vertical
4	5468.4342	54.29	16.25	68.30	14.01	221	28	Vertical
5	5510.0000	88.90	16.28	0.00	-88.90	158	28	Vertical
6	5510.0000	76.09	16.28	0.00	-76.09	291	28	Vertical



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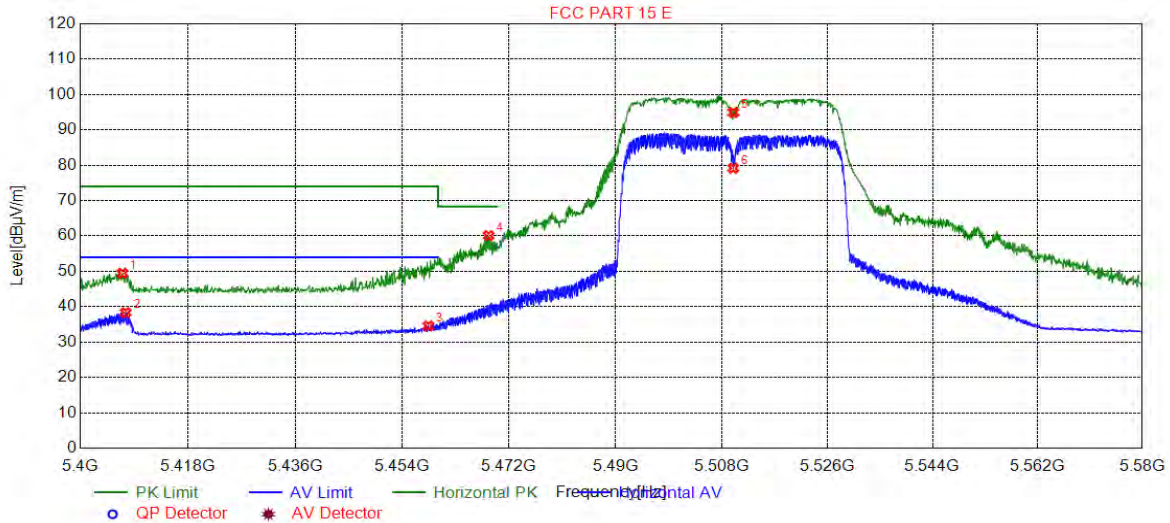
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4.10.1.82 11AC40_102 ANT 1_ Horizontal



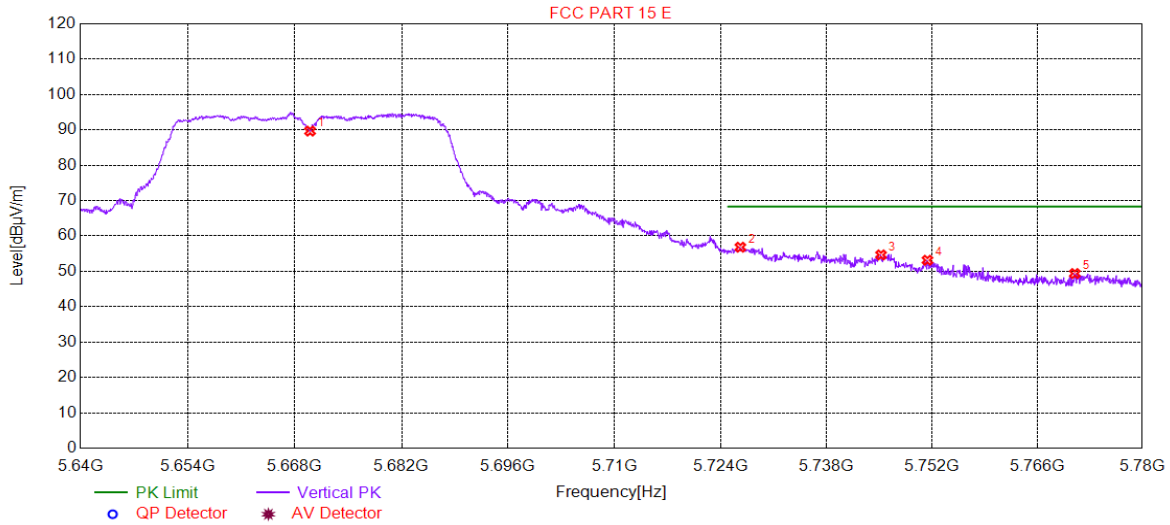
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5407.0235	49.44	16.25	74.00	24.56	226	351	Horizontal
2	5407.5638	38.33	16.25	54.00	15.67	229	351	Horizontal
3	5458.3492	34.57	16.25	54.00	19.43	103	351	Horizontal
4	5468.5243	60.08	16.25	68.30	8.22	162	351	Horizontal
5	5510.0000	94.91	16.28	0.00	-94.91	176	351	Horizontal
6	5510.0000	79.16	16.28	0.00	-79.16	140	76	Horizontal





4.10.1.83 11AC40_134 ANT 1_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.0000	89.66	16.64	0.00	-89.66	173	359	Vertical
2	5726.6333	56.83	16.97	68.30	11.47	277	359	Vertical
3	5745.2626	54.65	17.09	68.30	13.65	176	359	Vertical
4	5751.4257	53.15	17.12	68.30	15.15	182	359	Vertical
5	5771.0355	49.38	17.15	68.30	18.92	208	357	Vertical



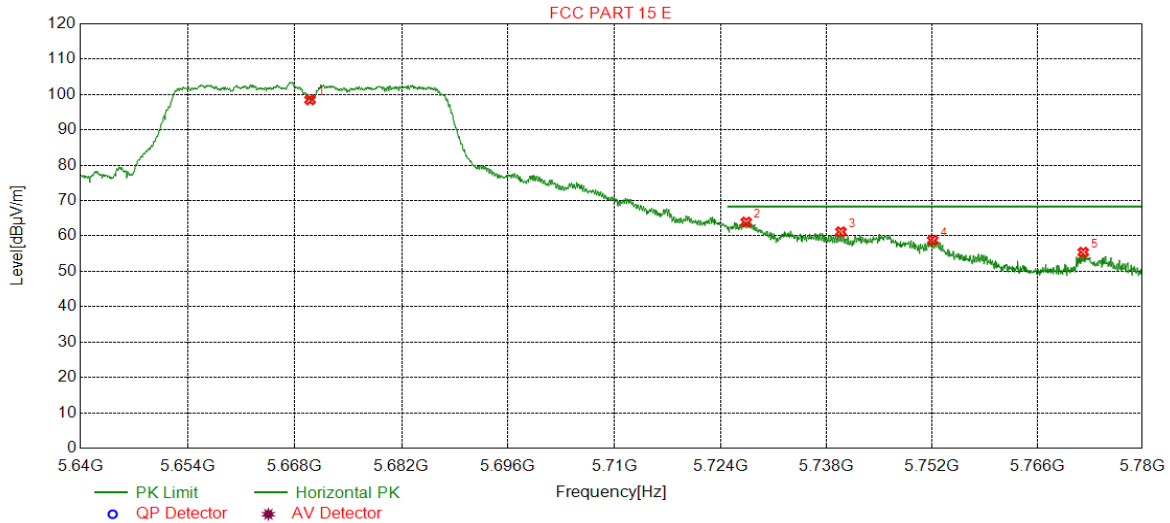
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4.10.1.84 11AC40_134 ANT 1_ Horizontal



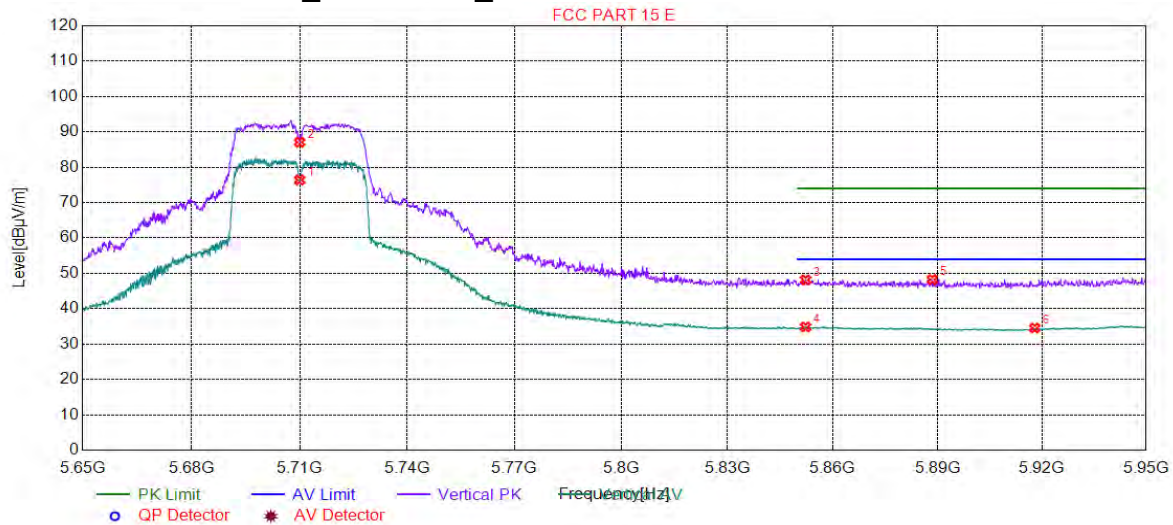
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.0000	98.51	16.64	0.00	-98.51	128	344	Horizontal
2	5727.4037	63.94	16.98	68.30	4.36	114	344	Horizontal
3	5739.9400	61.19	17.06	68.30	7.11	194	344	Horizontal
4	5752.1261	58.78	17.12	68.30	9.52	199	344	Horizontal
5	5772.1561	55.41	17.15	68.30	12.89	130	344	Horizontal





4.10.1.85 11AC40_142 ANT 1_ Vertical



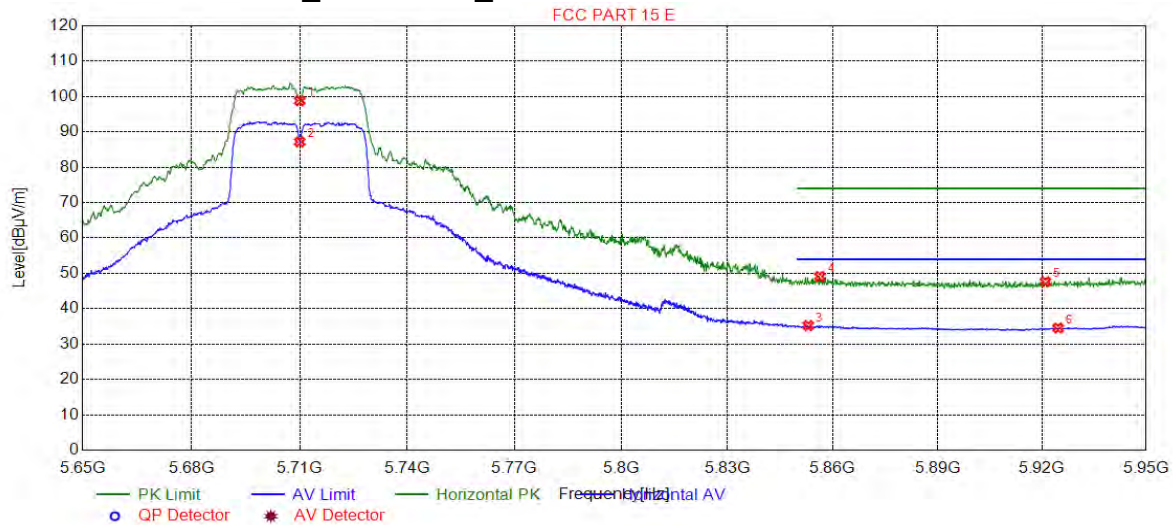
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5710.0000	76.39	16.86	0.00	-76.39	216	30	Vertical
2	5710.0000	87.08	16.86	0.00	-87.08	201	36	Vertical
3	5852.3012	48.17	17.25	74.00	25.83	279	16	Vertical
4	5852.3012	34.85	17.25	54.00	19.15	182	16	Vertical
5	5888.4692	48.27	17.14	74.00	25.73	252	78	Vertical
6	5917.8839	34.54	17.39	54.00	19.46	157	50	Vertical





4.10.1.86 11AC40_142 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5710.0000	98.79	16.86	0.00	-98.79	206	0	Horizontal
2	5710.0000	87.20	16.86	0.00	-87.20	136	344	Horizontal
3	5853.0515	35.23	17.25	54.00	18.77	184	48	Horizontal
4	5856.3532	49.12	17.24	74.00	24.88	122	344	Horizontal
5	5921.0355	47.67	17.43	74.00	26.33	239	152	Horizontal
6	5924.6373	34.55	17.49	54.00	19.45	195	226	Horizontal



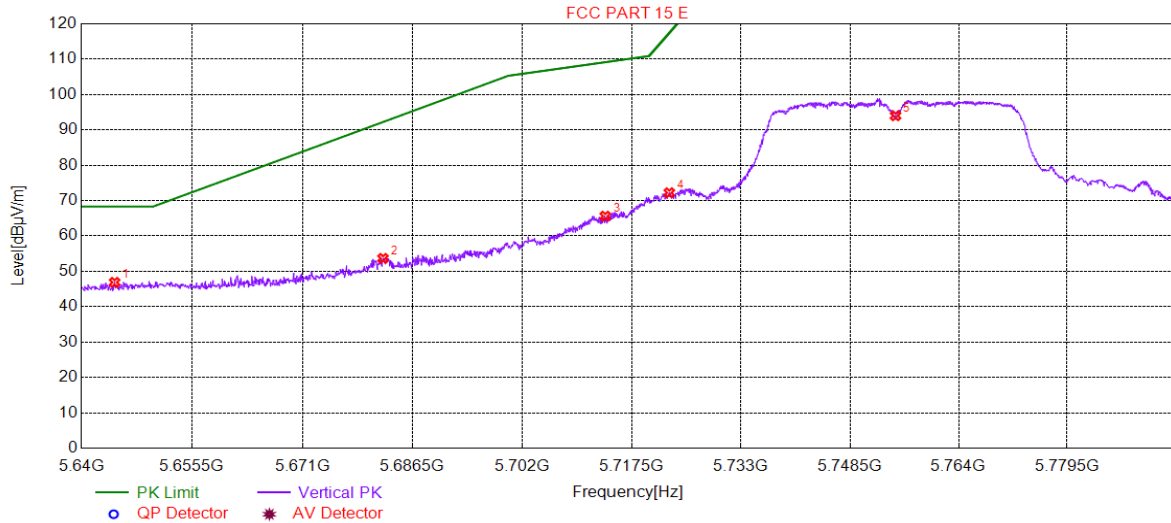
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4.10.1.87 11AC40_151 ANT 1_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.6523	46.89	16.54	68.30	21.41	203	309	Vertical
2	5682.3362	53.67	16.70	92.23	38.56	214	360	Vertical
3	5713.7394	65.62	16.89	109.15	43.53	275	358	Vertical
4	5722.8114	72.23	16.95	117.31	45.08	242	358	Vertical
5	5755.0000	94.00	17.13	0.00	-94.00	237	360	Vertical



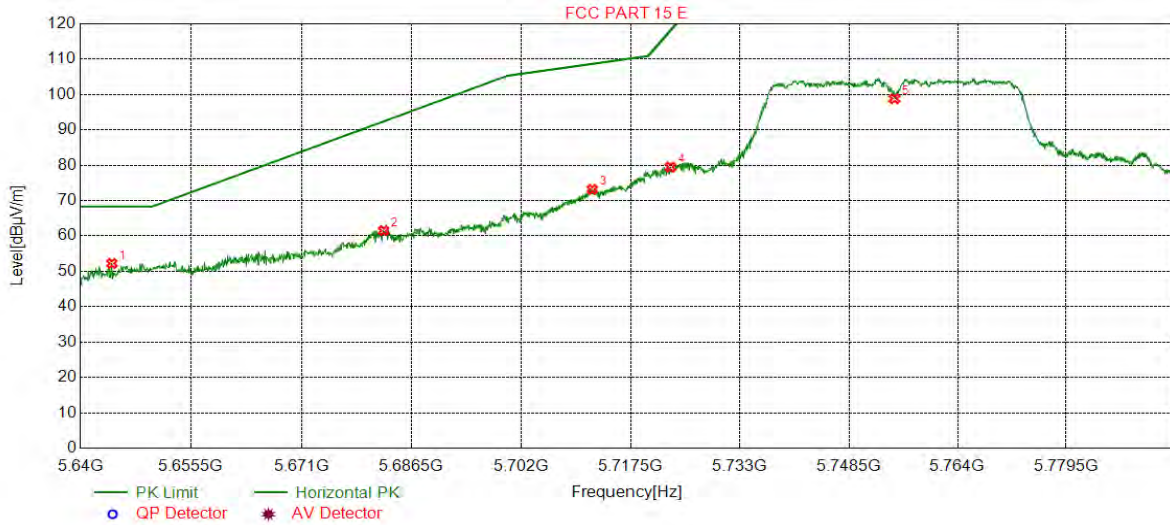
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4.10.1.88 11AC40_151 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.4197	52.24	16.54	68.30	16.06	140	344	Horizontal
2	5682.5688	61.51	16.71	92.40	30.89	198	344	Horizontal
3	5712.0335	73.17	16.88	108.67	35.50	240	344	Horizontal
4	5723.1216	79.48	16.95	118.02	38.54	198	344	Horizontal
5	5755.0000	98.81	17.13	0.00	-98.81	191	344	Horizontal

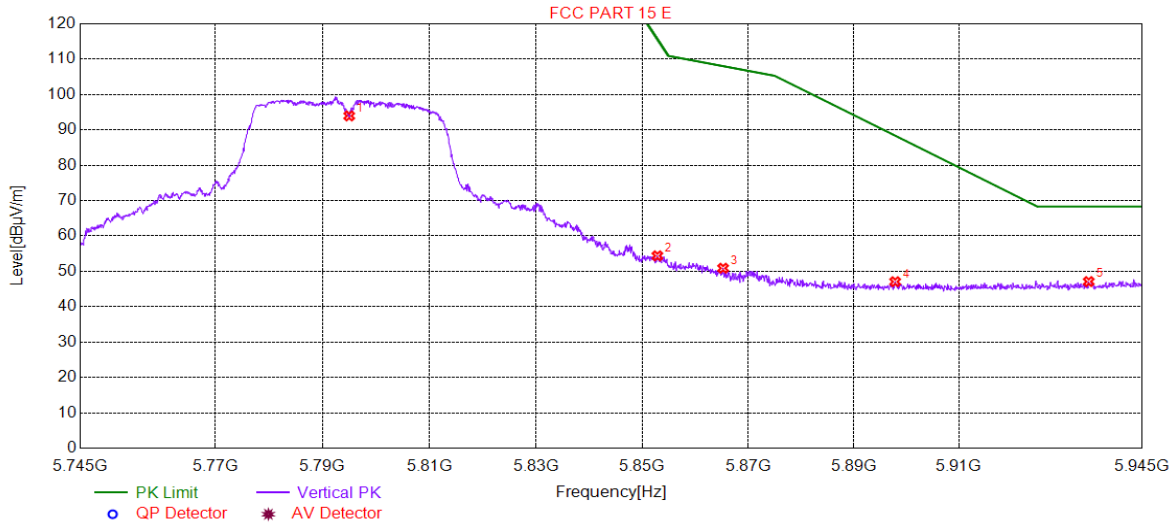


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4.10.1.89 11AC40_159 ANT 1_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.0000	93.95	17.18	0.00	-93.95	214	358	Vertical
2	5852.8539	54.39	17.25	115.79	61.40	187	57	Vertical
3	5865.2601	50.89	17.21	108.03	57.14	170	16	Vertical
4	5897.8764	47.08	17.12	88.37	41.29	164	314	Vertical
5	5934.7949	47.11	17.65	68.30	21.19	270	360	Vertical



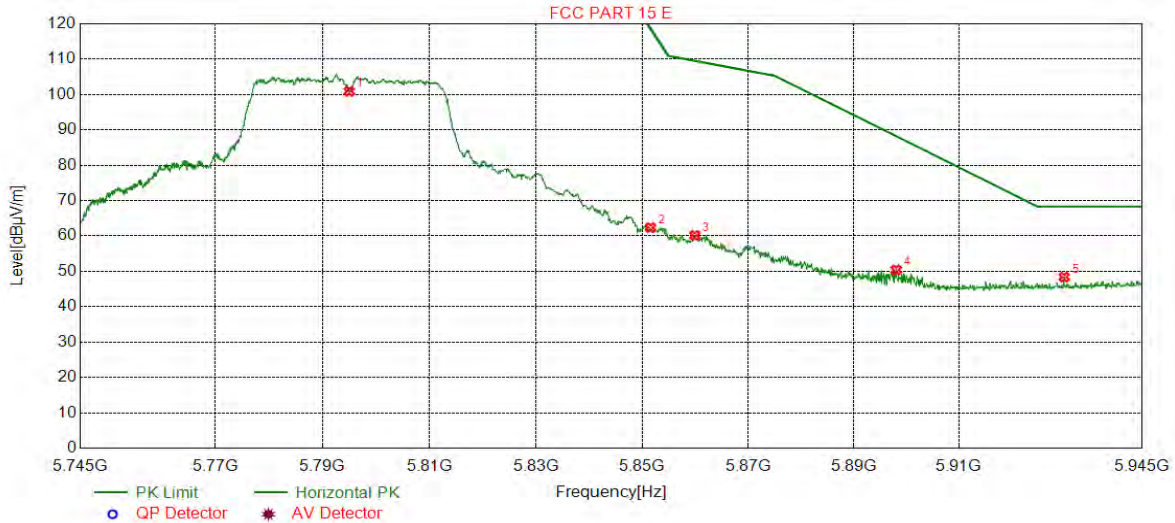
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4.10.1.90 11AC40_159 ANT 1_ Horizontal



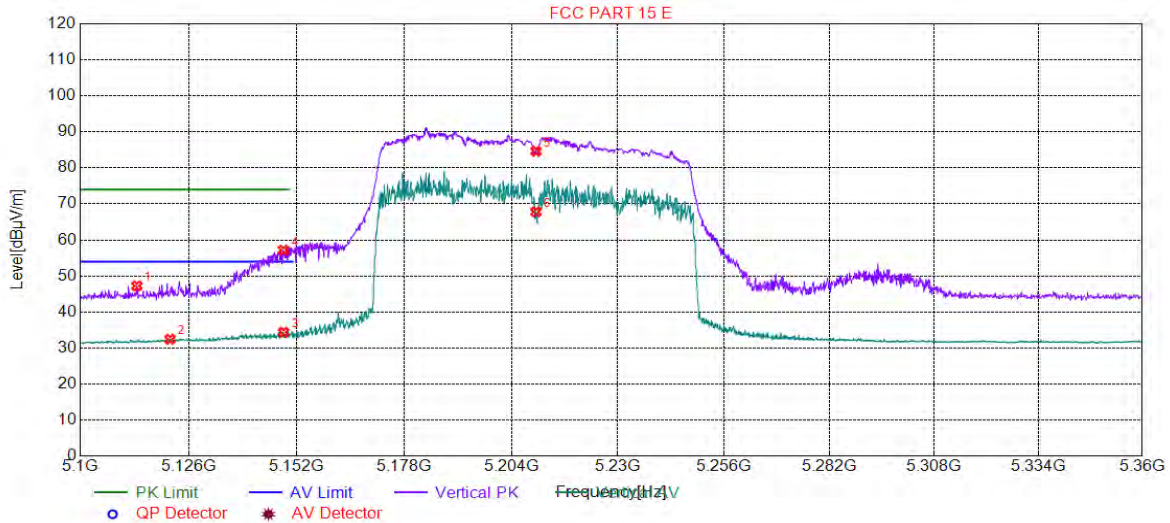
Suspected List

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1	5795.0000	100.92	17.18	0.00	-100.92	248	344	Horizontal
2	5851.5533	62.37	17.26	118.76	56.39	164	344	Horizontal
3	5859.9575	60.17	17.23	109.51	49.34	173	344	Horizontal
4	5898.0765	50.42	17.12	88.22	37.80	155	344	Horizontal
5	5930.0925	48.38	17.57	68.30	19.92	219	326	Horizontal





4.10.1.91 11AC80_42 ANT 1_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5113.5268	47.26	15.21	74.00	26.74	260	32	Vertical
2	5121.4607	32.46	15.27	54.00	21.54	298	194	Vertical
3	5148.7744	34.39	15.51	54.00	19.61	297	32	Vertical
4	5148.7744	57.19	15.51	74.00	16.81	283	32	Vertical
5	5210.0000	84.63	15.56	0.00	-84.63	196	32	Vertical
6	5210.0000	67.80	15.56	0.00	-67.80	274	242	Vertical



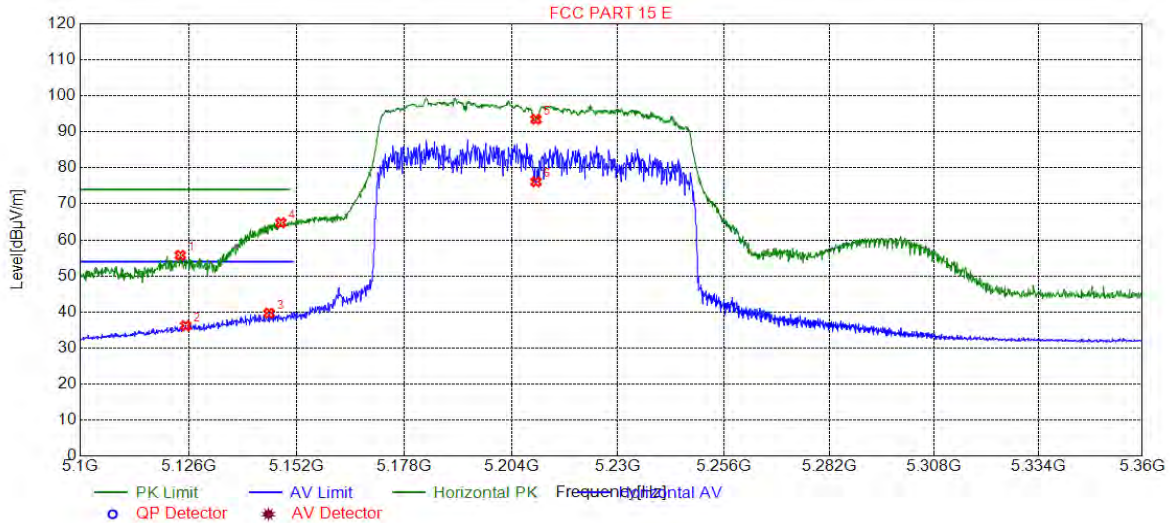
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4.10.1.92 11AC80_42 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5123.9320	55.75	15.30	74.00	18.25	234	348	Horizontal
2	5125.2326	36.17	15.31	54.00	17.83	130	348	Horizontal
3	5145.2626	39.69	15.48	54.00	14.31	137	348	Horizontal
4	5148.1241	64.76	15.50	74.00	9.24	133	348	Horizontal
5	5210.0000	93.46	15.56	0.00	-93.46	177	354	Horizontal
6	5210.0000	76.13	15.56	0.00	-76.13	200	359	Horizontal



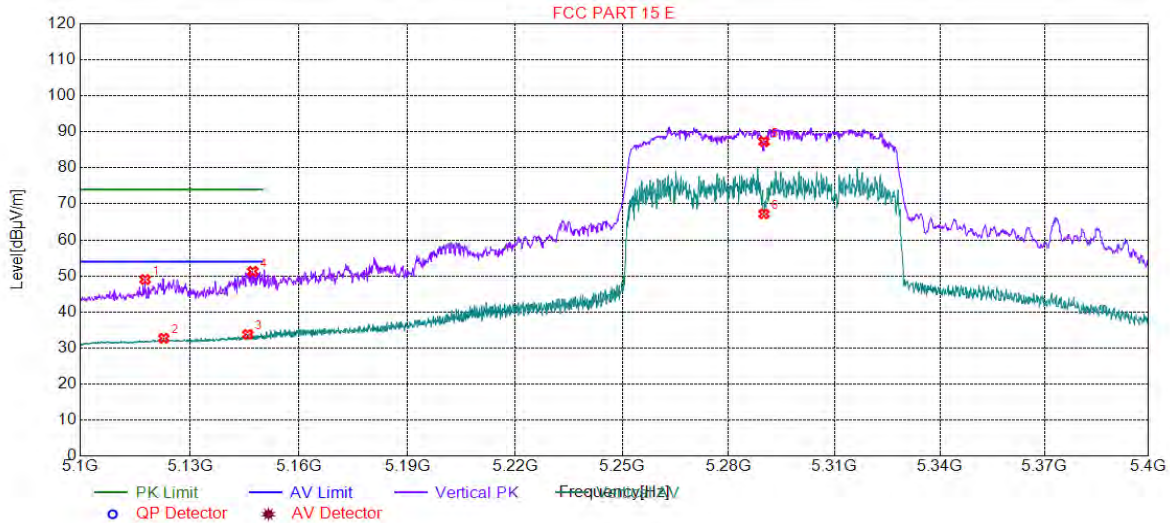
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4.10.1.93 11AC80_58 ANT 1_ Vertical



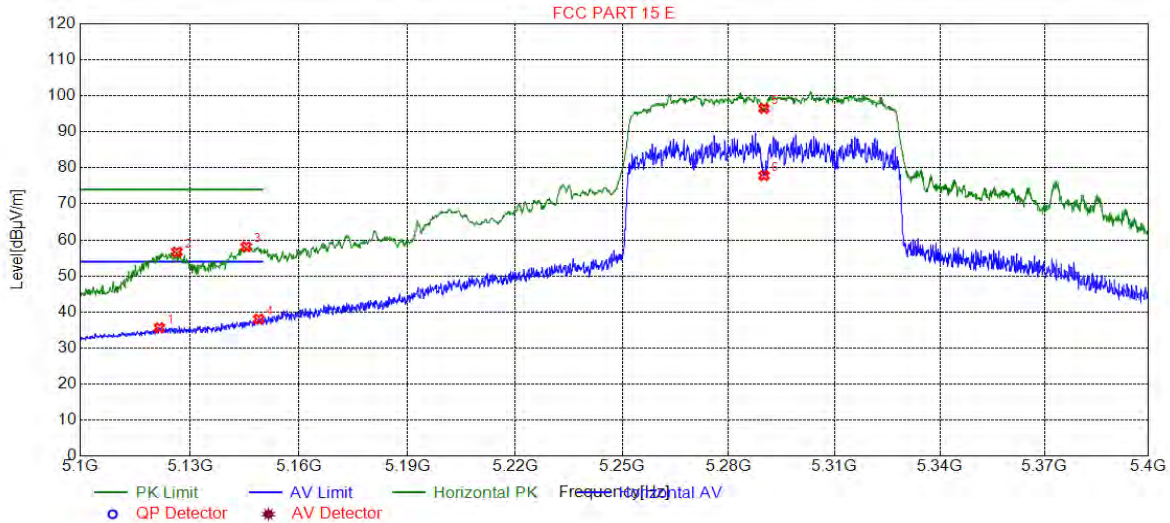
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5117.7089	49.02	15.24	74.00	24.98	179	34	Vertical
2	5122.8114	32.70	15.29	54.00	21.30	204	34	Vertical
3	5145.9230	33.78	15.48	54.00	20.22	275	34	Vertical
4	5147.2736	51.26	15.50	74.00	22.74	203	27	Vertical
5	5290.0000	87.32	15.65	0.00	-87.32	264	242	Vertical
6	5290.0000	67.23	15.65	0.00	-67.23	269	174	Vertical





4.10.1.94 11AC80_58 ANT 1_ Horizontal



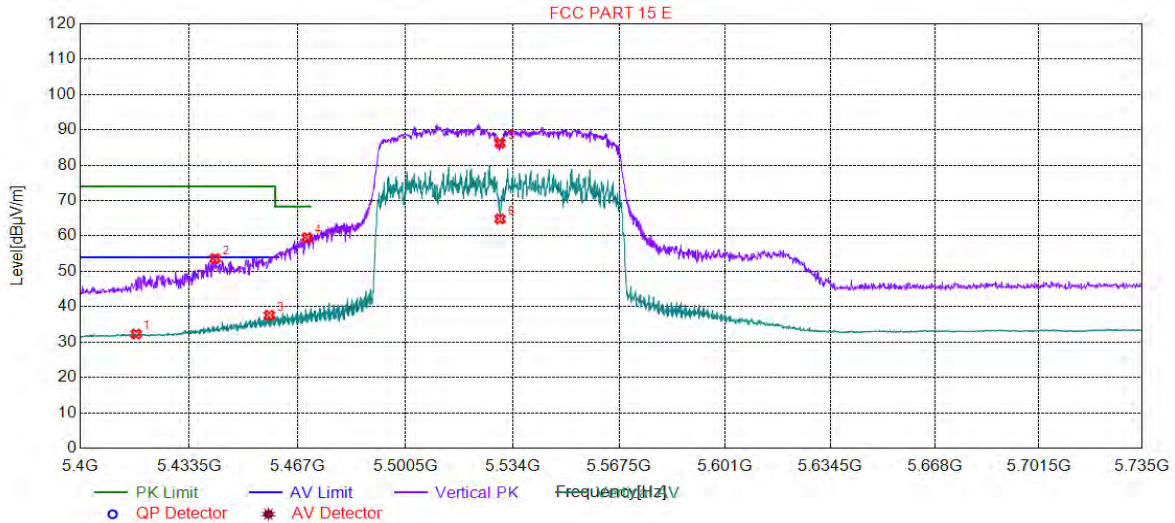
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5121.6108	35.61	15.28	54.00	18.39	160	16	Horizontal
2	5126.4132	56.65	15.32	74.00	17.35	187	16	Horizontal
3	5145.4727	58.11	15.48	74.00	15.89	238	352	Horizontal
4	5148.9245	38.04	15.51	54.00	15.96	235	77	Horizontal
5	5290.0000	96.53	15.65	0.00	-96.53	165	352	Horizontal
6	5290.0000	77.87	15.65	0.00	-77.87	191	358	Horizontal





4.10.1.95 11AC80_106 ANT 1_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5417.0935	32.27	16.25	54.00	21.73	192	344	Vertical
2	5441.3932	53.66	16.25	74.00	20.34	224	26	Vertical
3	5458.1516	37.57	16.25	54.00	16.43	267	33	Vertical
4	5469.8824	59.53	16.25	68.30	8.77	233	26	Vertical
5	5530.0000	86.27	16.35	0.00	-86.27	165	26	Vertical
6	5530.0000	64.84	16.35	0.00	-64.84	167	344	Vertical



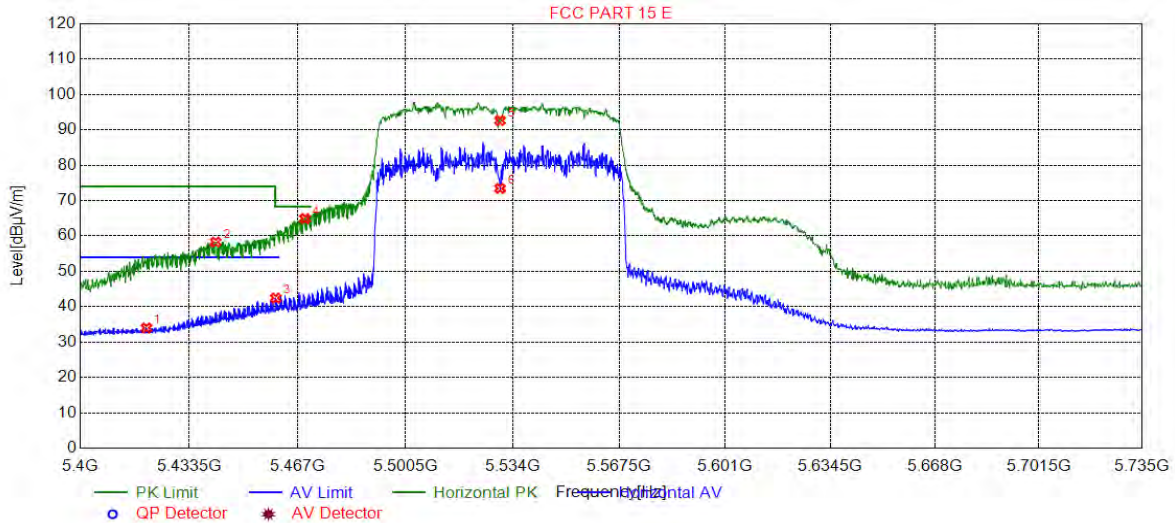
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4.10.1.96 11AC80_106 ANT 1_ Horizontal



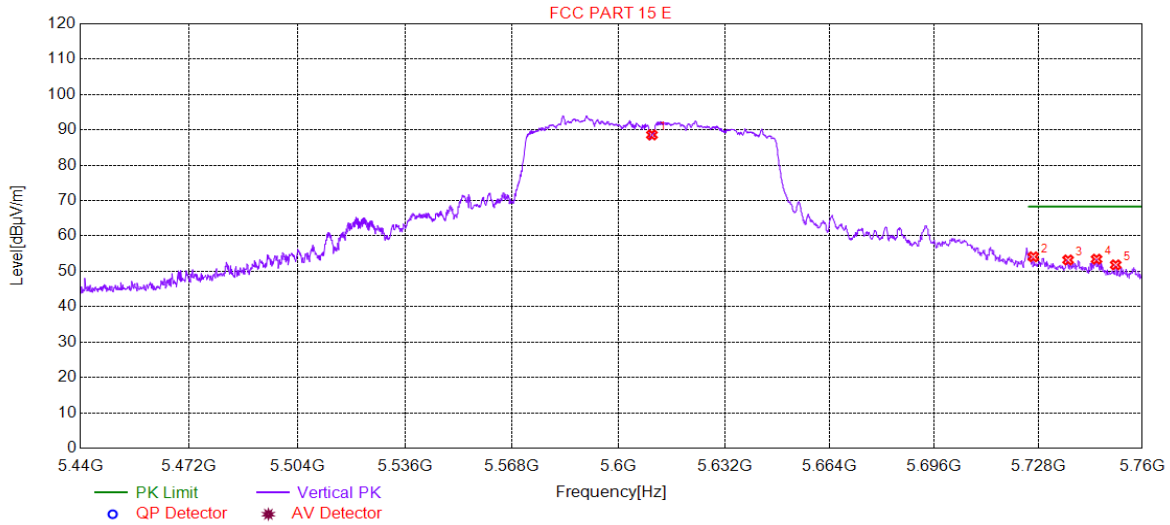
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5420.2776	33.99	16.25	54.00	20.01	216	350	Horizontal
2	5441.5608	58.28	16.25	74.00	15.72	186	350	Horizontal
3	5460.1626	42.44	16.25	54.00	11.56	117	350	Horizontal
4	5469.2121	64.91	16.25	68.30	3.39	223	350	Horizontal
5	5530.0000	92.65	16.35	0.00	-92.65	164	357	Horizontal
6	5530.0000	73.47	16.35	0.00	-73.47	193	159	Horizontal





4.10.1.97 11AC80_122 ANT 1_ Vertical



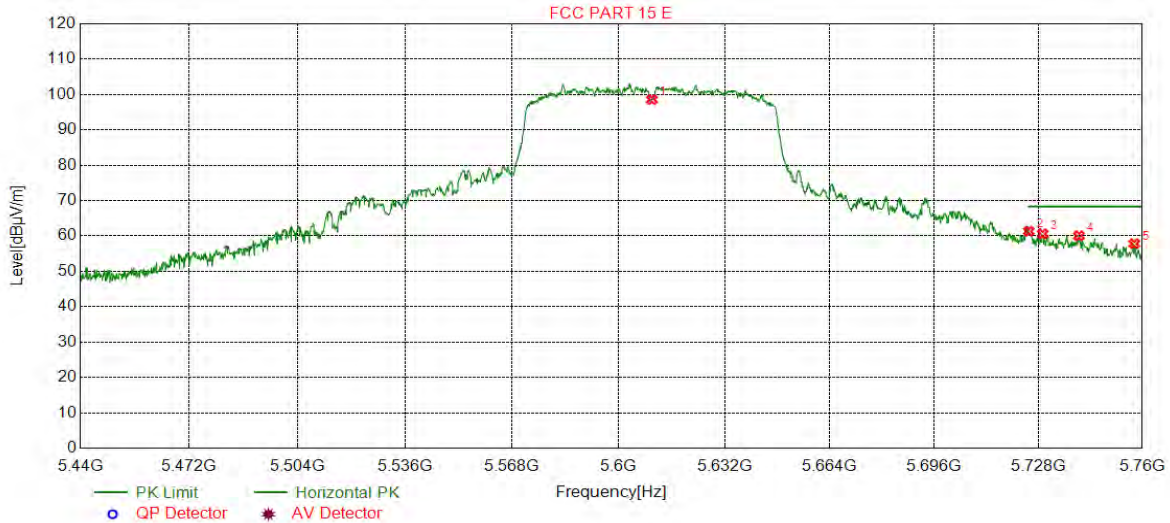
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.0000	88.58	16.58	0.00	-88.58	249	23	Vertical
2	5726.3832	54.11	16.97	68.30	14.19	239	344	Vertical
3	5737.1086	53.22	17.04	68.30	15.08	240	344	Vertical
4	5745.9130	53.45	17.09	68.30	14.85	255	344	Vertical
5	5751.8359	51.84	17.12	68.30	16.46	284	344	Vertical





4.10.1.98 11AC80_122 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.0000	98.57	16.58	0.00	-98.57	161	358	Horizontal
2	5725.0000	61.36	16.96	68.30	6.94	181	355	Horizontal
3	5729.2646	60.61	16.99	68.30	7.69	173	358	Horizontal
4	5740.4702	60.06	17.06	68.30	8.24	222	355	Horizontal
5	5757.5988	57.79	17.13	68.30	10.51	185	355	Horizontal



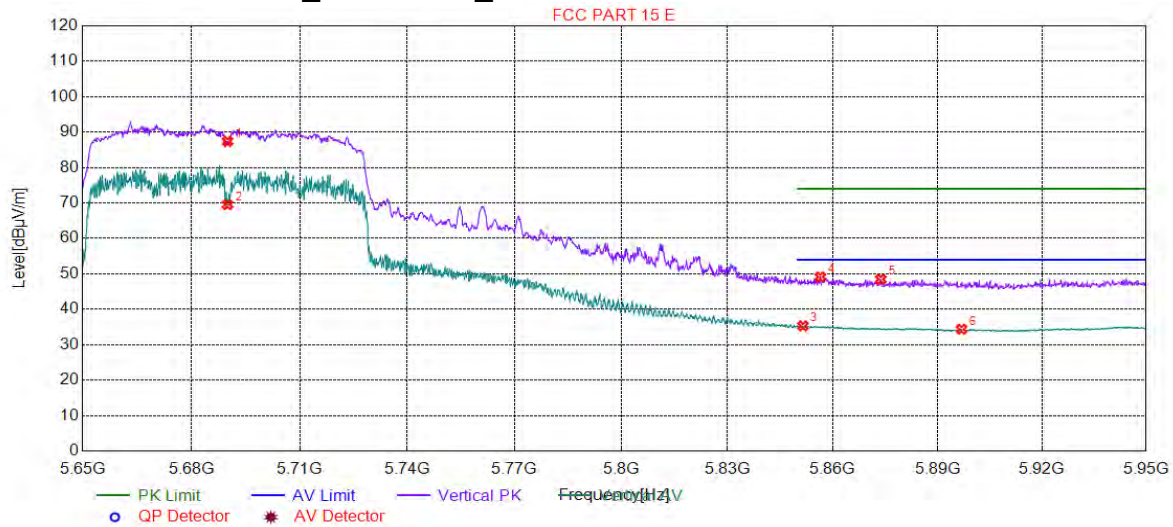
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4.10.1.99 11AC80_138 ANT 1_ Vertical



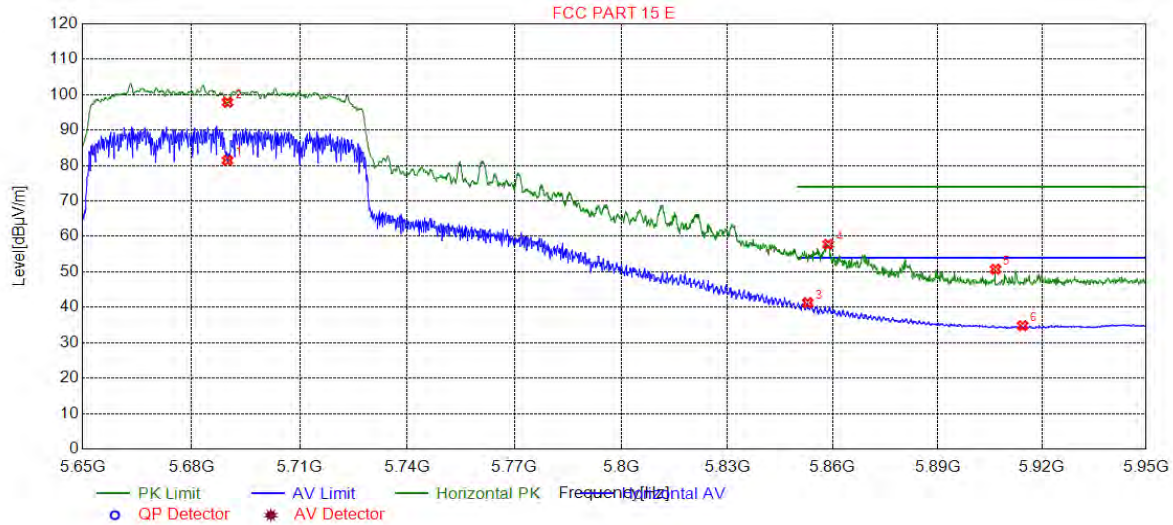
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.0000	87.40	16.75	0.00	-87.40	227	16	Vertical
2	5690.0000	69.53	16.75	0.00	-69.53	294	16	Vertical
3	5851.5508	35.32	17.26	54.00	18.68	187	57	Vertical
4	5856.5033	49.16	17.24	74.00	24.84	261	50	Vertical
5	5873.7619	48.47	17.19	74.00	25.53	162	326	Vertical
6	5896.8734	34.39	17.12	54.00	19.61	241	244	Vertical





4.10.1.100 11AC80_138 ANT 1_ Horizontal



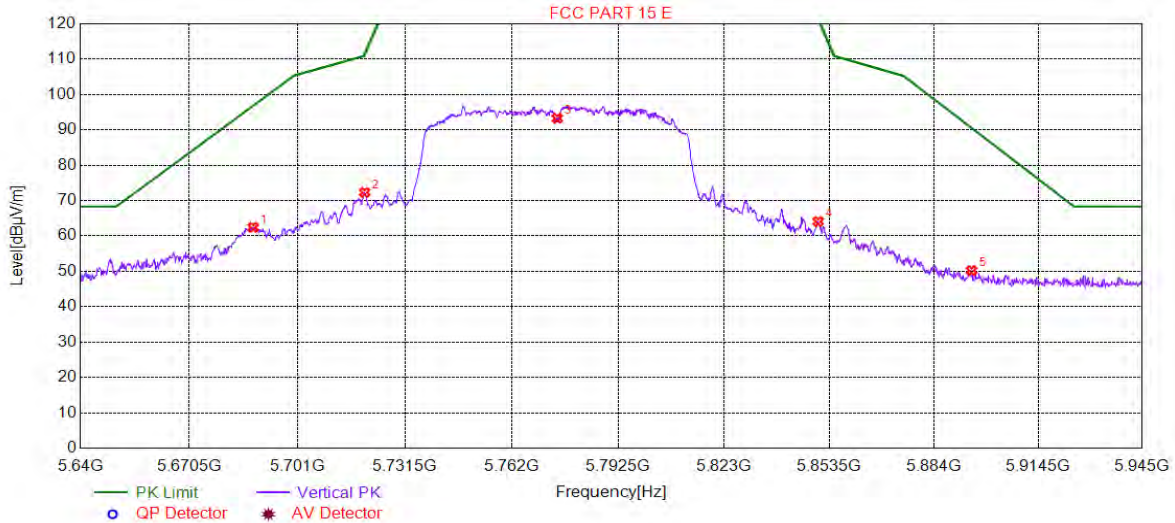
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.0000	81.45	16.75	0.00	-81.45	248	344	Horizontal
2	5690.0000	97.83	16.75	0.00	-97.83	244	69	Horizontal
3	5852.9015	41.27	17.25	54.00	12.73	147	56	Horizontal
4	5858.7544	57.75	17.23	74.00	16.25	200	49	Horizontal
5	5906.6283	50.73	17.21	74.00	23.27	224	344	Horizontal
6	5914.4322	34.79	17.33	54.00	19.21	190	56	Horizontal





4.10.1.101 11AC80_155 ANT 1_ Vertical



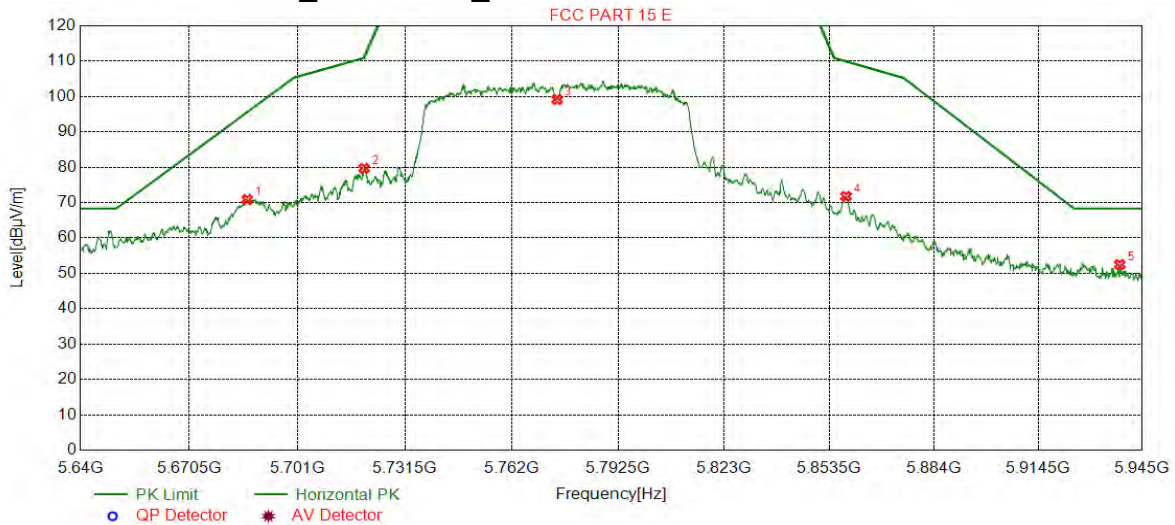
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5688.5193	62.44	16.74	96.80	34.36	201	344	Vertical
2	5720.1026	72.33	16.93	111.13	38.80	275	344	Vertical
3	5775.0000	93.28	17.16	122.30	29.02	250	344	Vertical
4	5850.2501	64.11	17.26	121.73	57.62	231	180	Vertical
5	5894.9550	50.24	17.13	90.53	40.29	281	176	Vertical





4.10.1.102 11AC80_155 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5686.8409	70.87	16.73	95.56	24.69	217	358	Horizontal
2	5719.9500	79.69	16.93	110.89	31.20	225	358	Horizontal
3	5775.0000	99.16	17.16	122.30	23.14	133	360	Horizontal
4	5858.3367	71.77	17.23	109.97	38.20	131	360	Horizontal
5	5938.4392	52.50	17.70	68.30	15.80	148	83	Horizontal

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	5320
V nom(V)	5180.004496	5320.004955
V max(V)	5180.004752	5320.005744
V min(V)	5180.010877	5320.014636
Max. Deviation Frequency	0.010877	0.014636
Max. Frequency Error (ppm)	2.099844	2.751082

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5320
-5	5180.007476	5320.008208
5	5180.015929	5320.012376
15	5180.016843	5320.020292
25	5180.016935	5320.020434
35	5180.019487	5320.029369
45	5180.023804	5320.034712
50	5180.027623	5320.041941
Max. Deviation Frequency	0.027623	0.041941
Max. Frequency Error (ppm)	5.332583	7.883564



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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
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.		



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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
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.	

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

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

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel 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 U-NII Detection Bandwidth 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.



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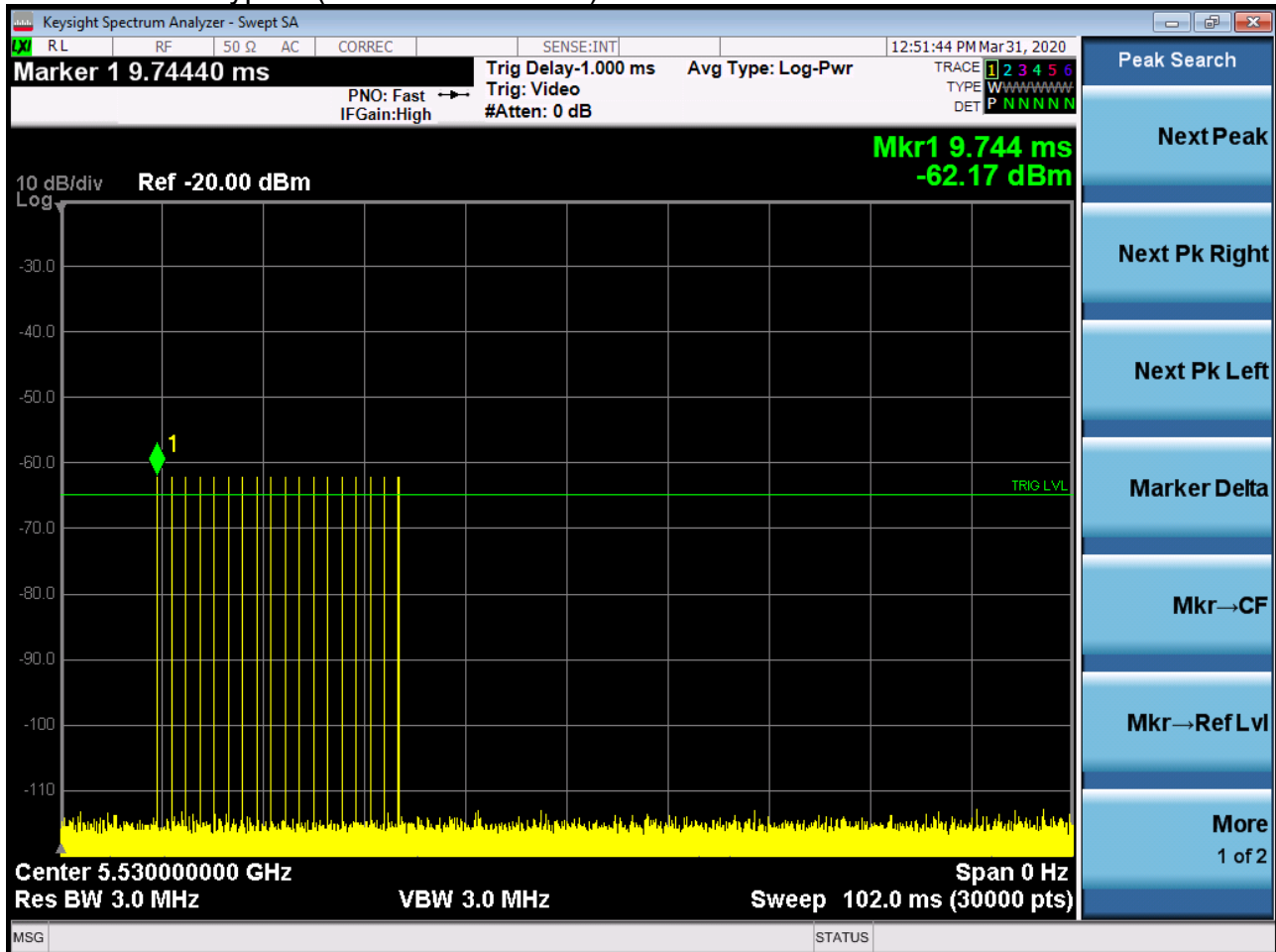
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4.12.4 Test plots

4.12.4.1 Radar Waveform Calibration Result

Radar Type 0 (80MHz / 5530MHz)



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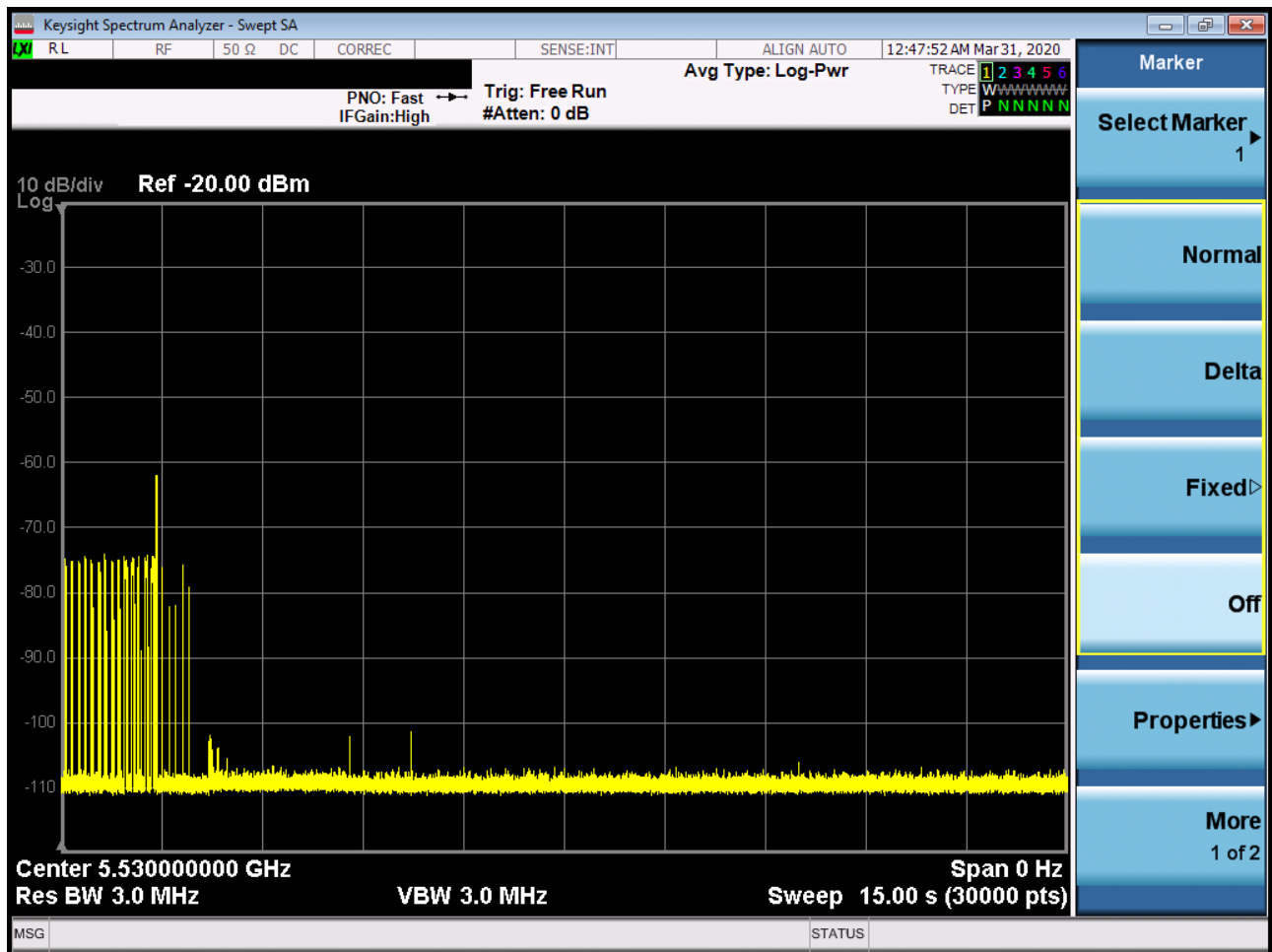


4.12.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5530MHz	Channel Move Time	0.483s	<10s	Pass
	Channel Closing Transmission Time	1.5ms	<60ms	Pass

4.12.5.1 Test plots

4.12.5.1.1 Test Bandwidth/Channel= 80MHz / 5530MHz

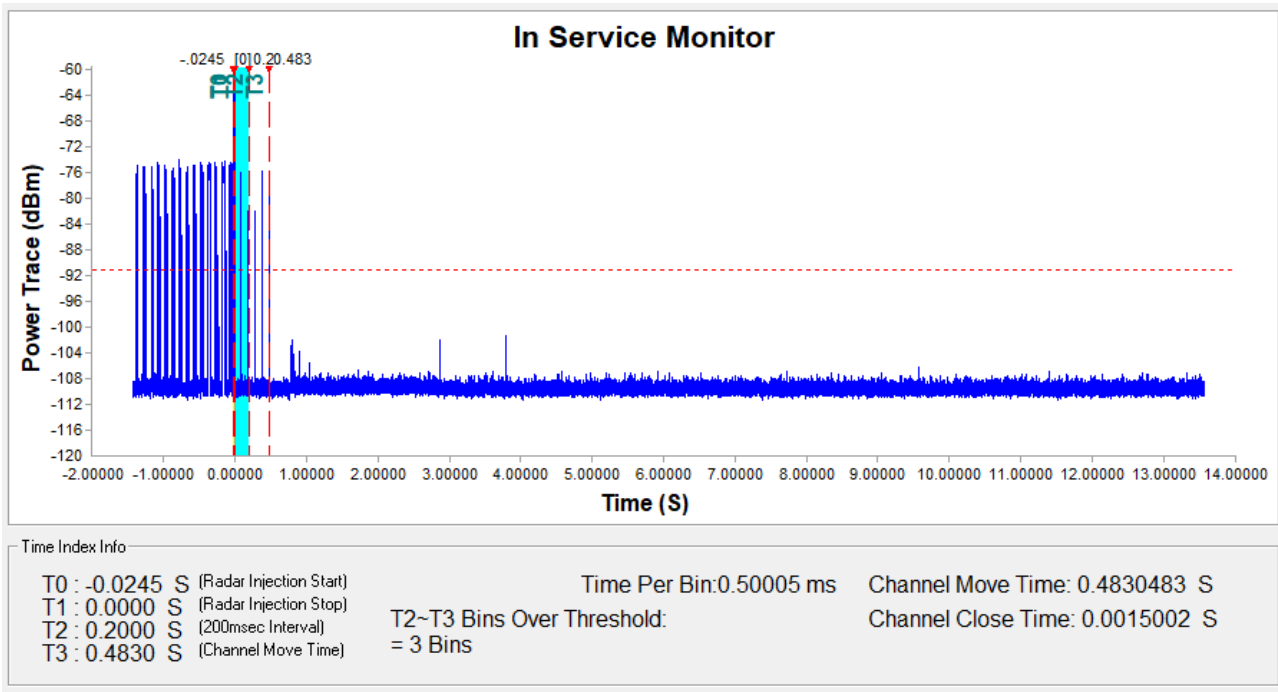


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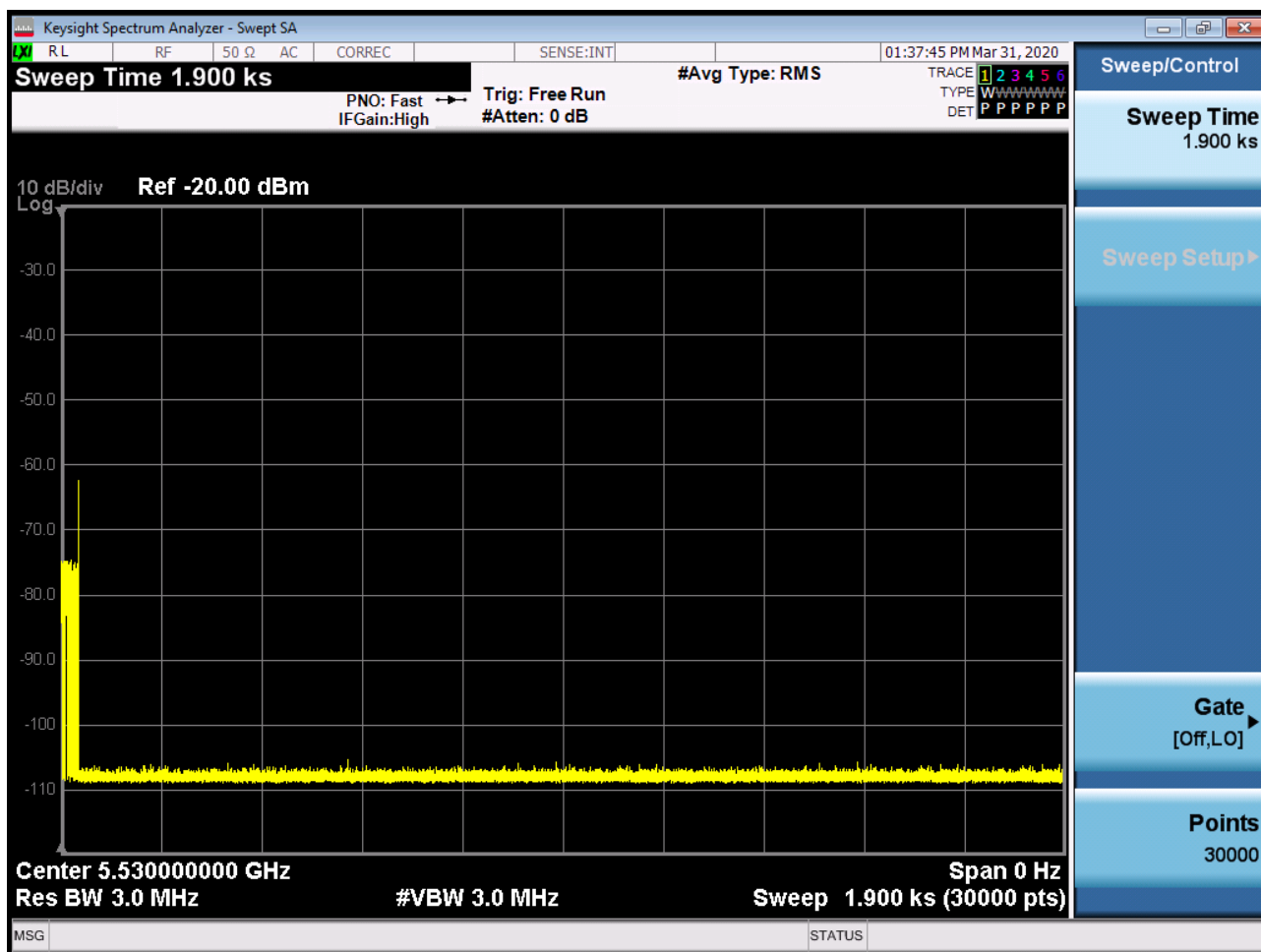
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5 Measurement Uncertainty (95% confidence levels, k=2)

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	2019/7/14	2020/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/4/9	2020/4/8
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87- WRT3200ACM IC ID:3839A- WRT3200ACM	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	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2019-07-16	2020-07-15
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





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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	2019-06-27	2020-06-26
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2019-06-28	2020-06-27
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
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	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/20031.

The End

