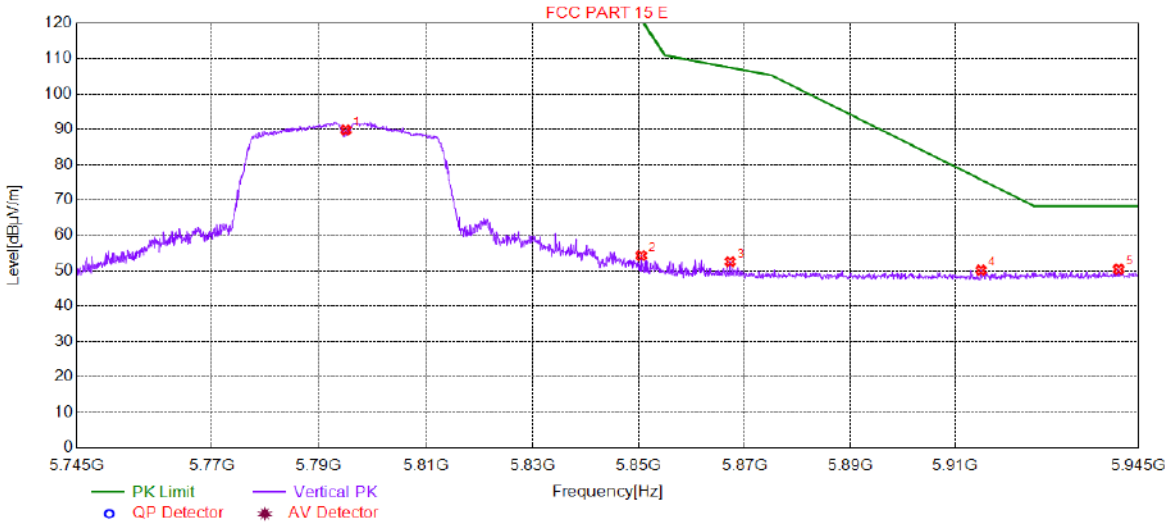
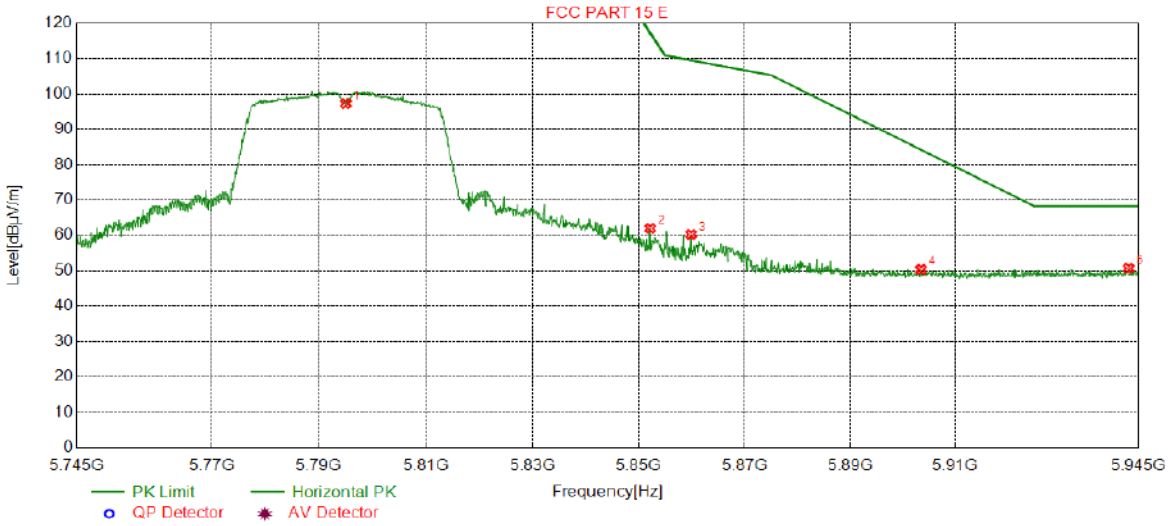
4.8.1.53 11N40_159 ANT 1_Vertical



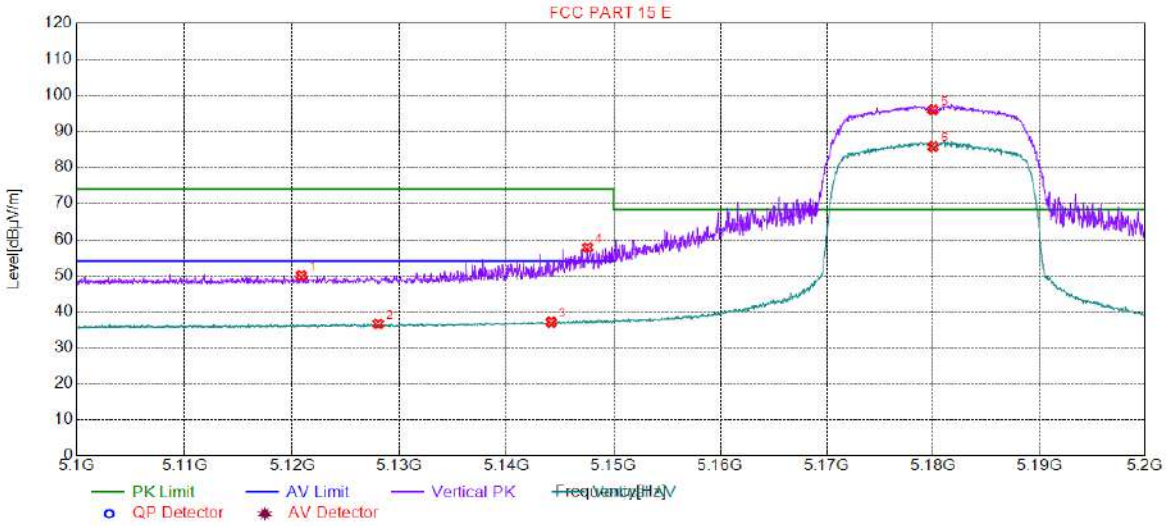
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.0000	89.82	19.81	0.00	-89.82	273	201	Vertical
2	5850.4527	54.30	19.74	121.27	66.97	228	168	Vertical
3	5867.2611	52.56	19.71	107.47	54.91	277	196	Vertical
4	5914.8849	50.19	19.77	75.79	25.60	249	322	Vertical
5	5941.1981	50.45	19.99	68.30	17.85	293	192	Vertical

4.8.1.54 11N40_159 ANT 1_ Horizontal



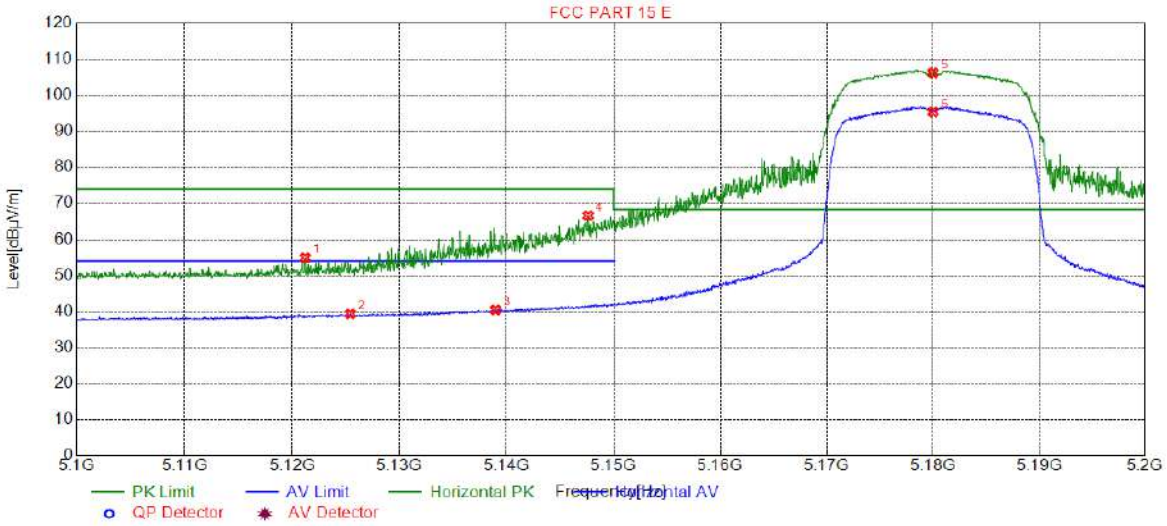
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.0000	97.30	19.81	0.00	-97.30	108	28	Horizontal
2	5852.1536	62.00	19.74	117.39	55.39	183	358	Horizontal
3	5859.8574	60.26	19.72	109.54	49.28	149	360	Horizontal
4	5903.4792	50.40	19.67	84.23	33.83	136	33	Horizontal
5	5943.0991	50.73	20.00	68.30	17.57	188	120	Horizontal

4.8.1.55 11AC20_36 ANT 1_Vertical



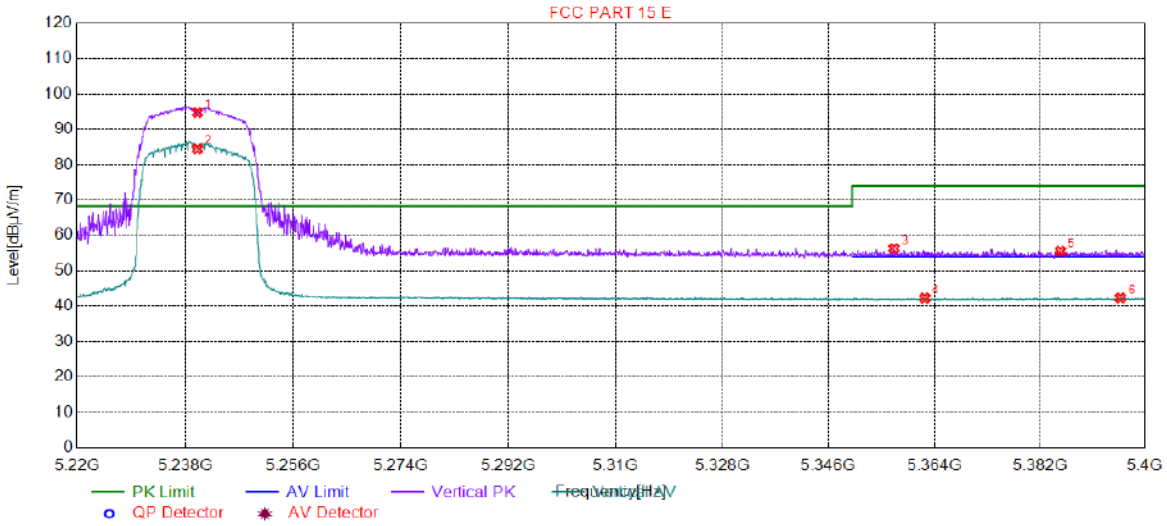
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.8604	50.00	17.85	74.00	24.00	161	138	Vertical
2	5128.0140	36.58	17.86	54.00	17.42	257	143	Vertical
3	5144.1721	37.04	17.90	54.00	16.96	186	149	Vertical
4	5147.5738	57.79	17.91	74.00	16.21	252	149	Vertical
5	5180.0000	95.94	17.98	68.30	-27.64	218	127	Vertical
6	5180.0000	85.80	17.98	0.00	-85.80	232	127	Vertical

4.8.1.56 11AC20_36 ANT 1_ Horizontal



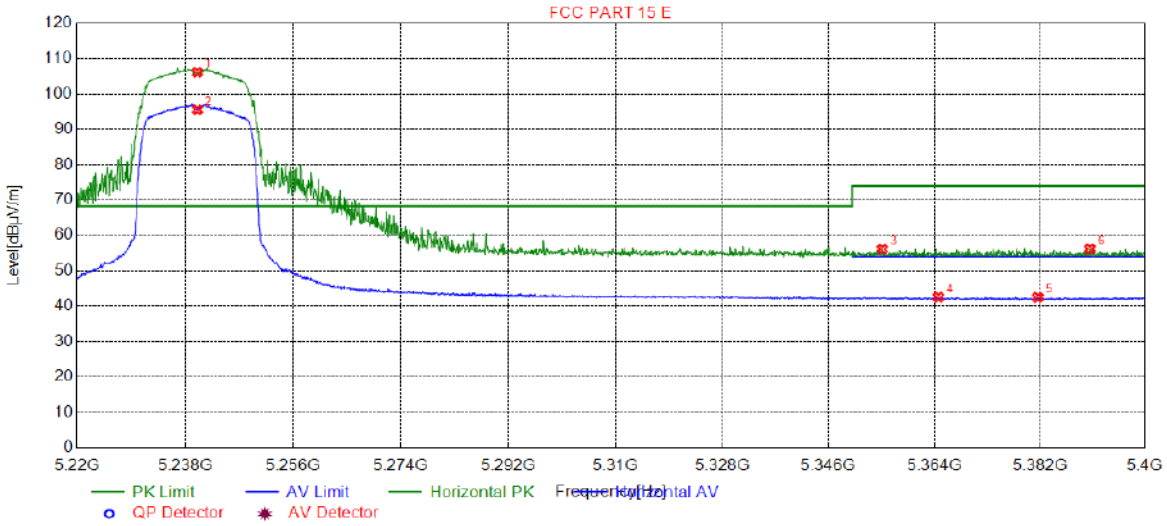
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5121.2106	54.90	17.85	74.00	19.10	147	24	Horizontal
2	5125.4127	39.33	17.86	54.00	14.67	224	46	Horizontal
3	5138.9695	40.42	17.89	54.00	13.58	182	14	Horizontal
4	5147.6238	66.62	17.91	74.00	7.38	169	35	Horizontal
5	5180.0000	106.24	17.98	68.30	-37.94	226	358	Horizontal
6	5180.0000	95.36	17.98	0.00	-95.36	254	358	Horizontal

4.8.1.57 11AC20_48 ANT 1_Vertical



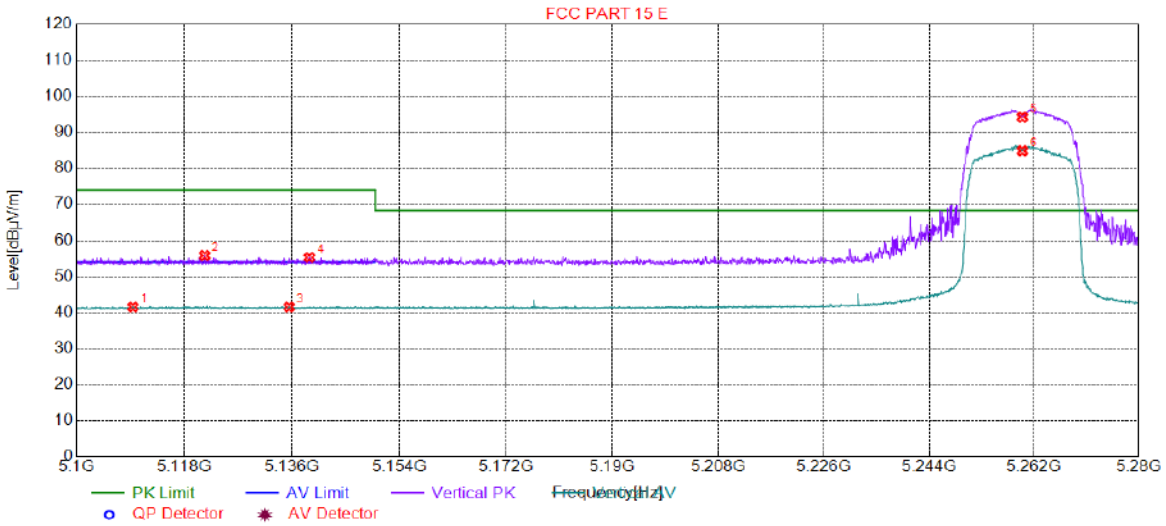
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.0000	94.71	18.12	68.30	-26.41	217	132	Vertical
2	5240.0000	84.45	18.12	0.00	-84.45	265	139	Vertical
3	5357.1386	56.33	18.47	74.00	17.67	204	167	Vertical
4	5362.3612	42.30	18.49	54.00	11.70	171	43	Vertical
5	5385.5028	55.58	18.57	74.00	18.42	223	43	Vertical
6	5395.7679	42.34	18.61	54.00	11.66	195	30	Vertical

4.8.1.58 11AC20_48 ANT 1_ Horizontal



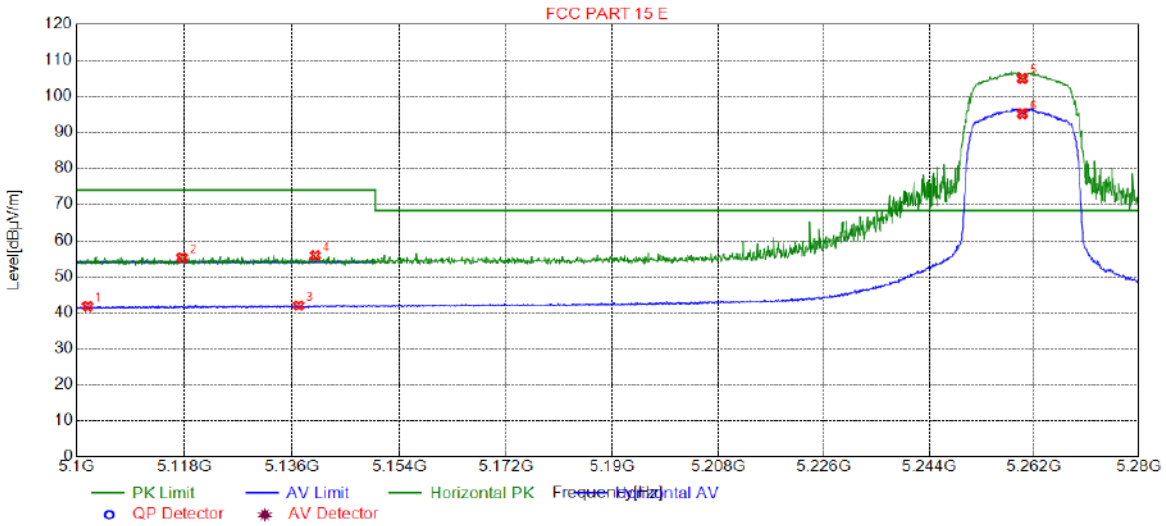
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.0000	106.12	18.12	68.30	-37.82	130	16	Horizontal
2	5240.0000	95.54	18.12	0.00	-95.54	192	16	Horizontal
3	5355.1576	56.16	18.46	74.00	17.84	125	90	Horizontal
4	5364.7024	42.58	18.50	54.00	11.42	154	22	Horizontal
5	5381.6308	42.52	18.56	54.00	11.48	205	16	Horizontal
6	5390.5453	56.22	18.59	74.00	17.78	244	234	Horizontal

4.8.1.59 11AC20_52 ANT 1_Vertical



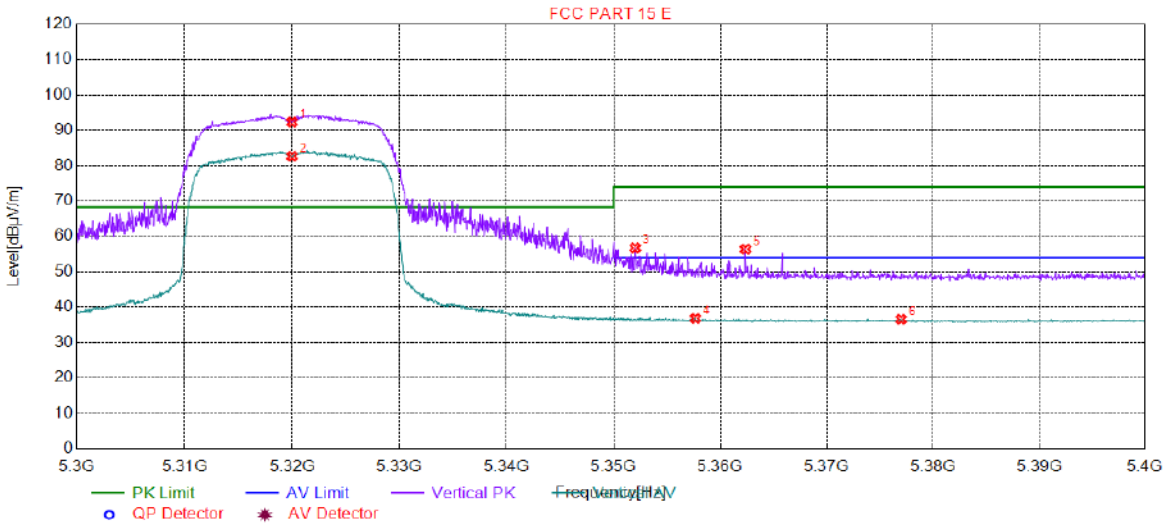
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5109.3647	41.54	17.82	54.00	12.46	291	221	Vertical
2	5121.3407	55.78	17.85	74.00	18.22	272	338	Vertical
3	5135.4777	41.54	17.88	54.00	12.46	182	118	Vertical
4	5138.8995	55.28	17.89	74.00	18.72	281	207	Vertical
5	5260.0000	94.22	18.16	68.30	-25.92	187	138	Vertical
6	5260.0000	84.87	18.16	0.00	-84.87	194	138	Vertical

4.8.1.60 11AC20_52 ANT 1_ Horizontal



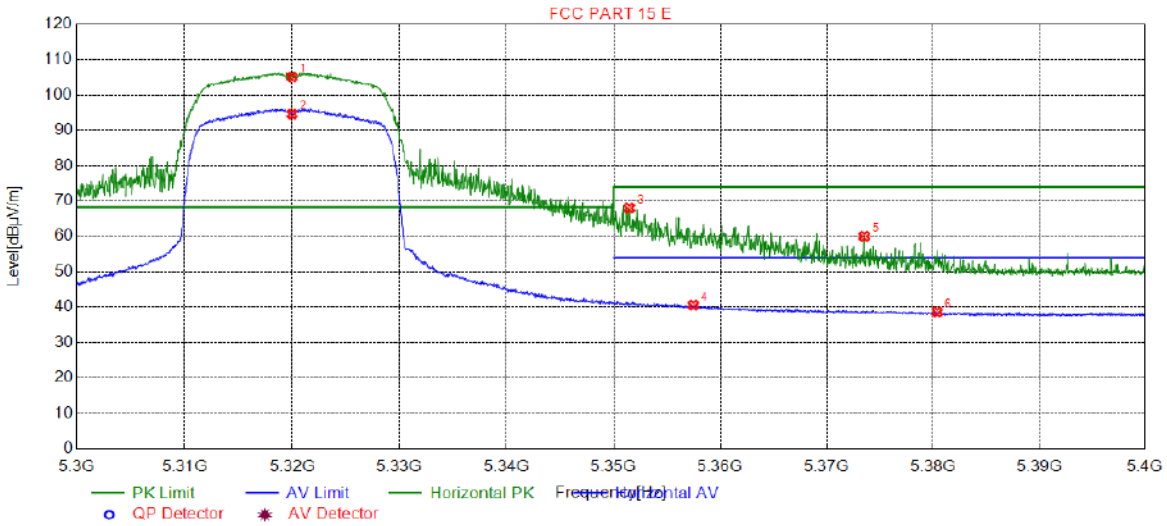
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5101.8009	41.74	17.80	54.00	12.26	210	42	Horizontal
2	5117.5588	55.18	17.84	74.00	18.82	139	330	Horizontal
3	5137.0985	41.94	17.89	54.00	12.06	103	360	Horizontal
4	5139.8899	55.83	17.89	74.00	18.17	107	16	Horizontal
5	5260.0000	104.95	18.16	68.30	-36.65	175	16	Horizontal
6	5260.0000	95.16	18.16	0.00	-95.16	122	16	Horizontal

4.8.1.61 11AC20_64 ANT 1_Vertical



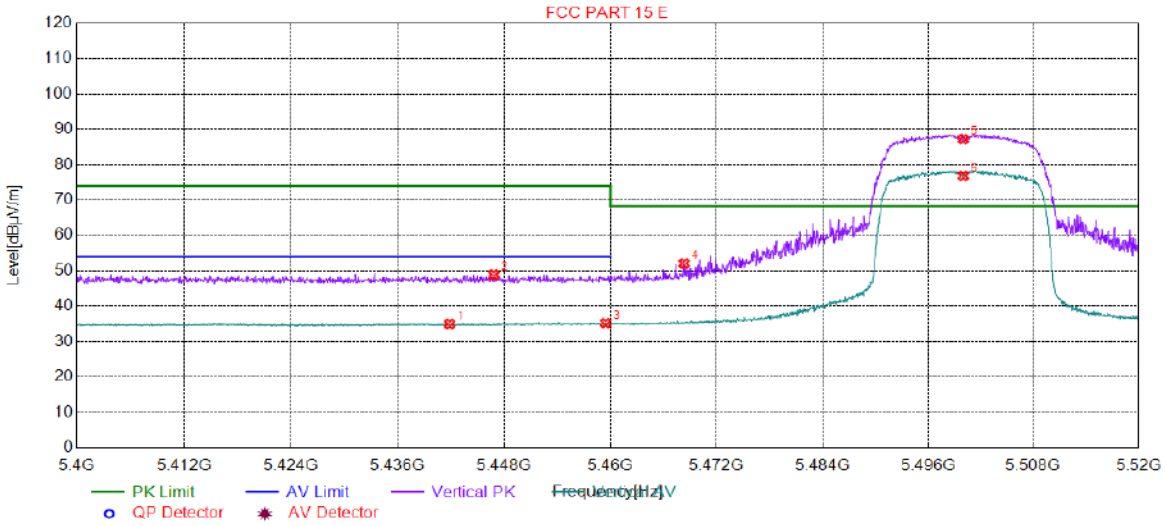
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	92.35	18.33	68.30	-24.05	157	16	Vertical
2	5320.0000	82.69	18.33	0.00	-82.69	245	16	Vertical
3	5352.0260	56.75	18.45	74.00	17.25	229	16	Vertical
4	5357.6788	36.82	18.47	54.00	17.18	273	23	Vertical
5	5362.3812	56.41	18.49	74.00	17.59	255	140	Vertical
6	5376.9885	36.56	18.54	54.00	17.44	152	16	Vertical

4.8.1.62 11AC20_64 ANT 1_ Horizontal



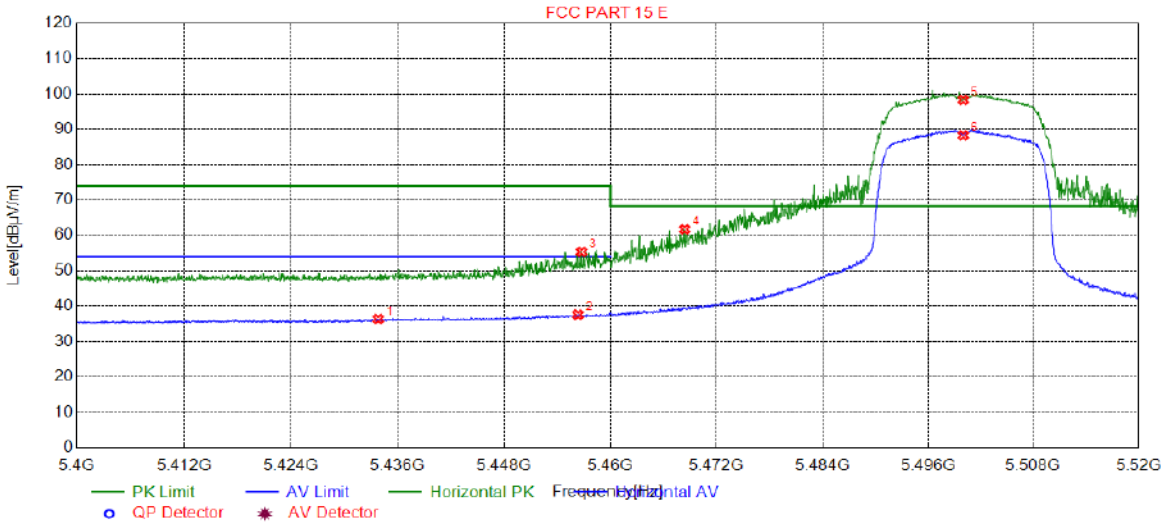
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	105.06	18.33	68.30	-36.76	246	16	Horizontal
2	5320.0000	94.58	18.33	0.00	-94.58	193	16	Horizontal
3	5351.4757	68.07	18.45	74.00	5.93	171	16	Horizontal
4	5357.4787	40.60	18.47	54.00	13.40	107	16	Horizontal
5	5373.5368	60.03	18.53	74.00	13.97	195	16	Horizontal
6	5380.3902	38.62	18.56	54.00	15.38	179	16	Horizontal

4.8.1.63 11AC20_100 ANT 1_Vertical



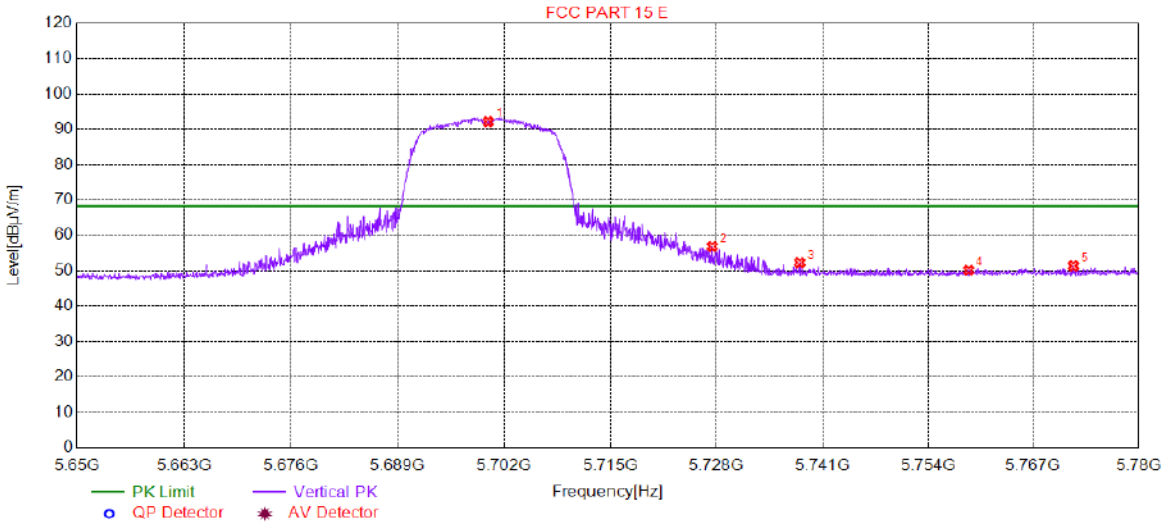
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5441.8409	34.96	18.56	54.00	19.04	155	237	Vertical
2	5446.8234	48.90	18.56	74.00	25.10	219	159	Vertical
3	5459.4297	35.21	18.53	54.00	18.79	225	25	Vertical
4	5468.3142	52.08	18.52	68.30	16.22	256	181	Vertical
5	5500.0000	87.19	18.47	68.30	-18.89	264	181	Vertical
6	5500.0000	76.83	18.47	0.00	-76.83	269	181	Vertical

4.8.1.64 11AC20_100 ANT 1_ Horizontal



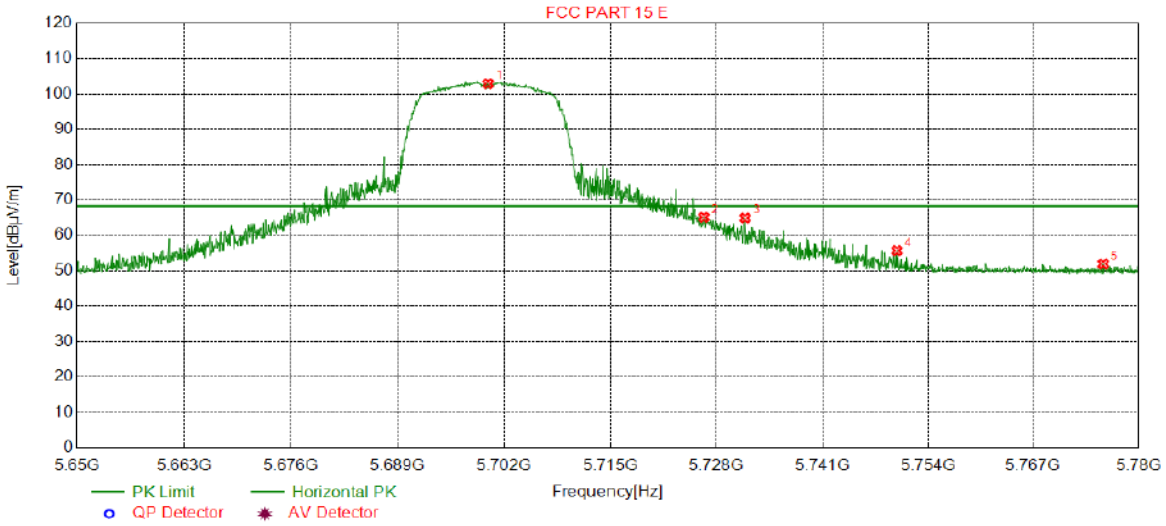
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5433.7969	36.34	18.58	54.00	17.66	204	32	Horizontal
2	5456.3082	37.57	18.54	54.00	16.43	241	32	Horizontal
3	5456.7284	55.36	18.54	74.00	18.64	218	32	Horizontal
4	5468.3742	61.71	18.52	68.30	6.59	264	32	Horizontal
5	5500.0000	98.33	18.47	68.30	-30.03	222	32	Horizontal
6	5500.0000	88.29	18.47	0.00	-88.29	257	32	Horizontal

4.8.1.65 11AC20_140 ANT 1_Vertical



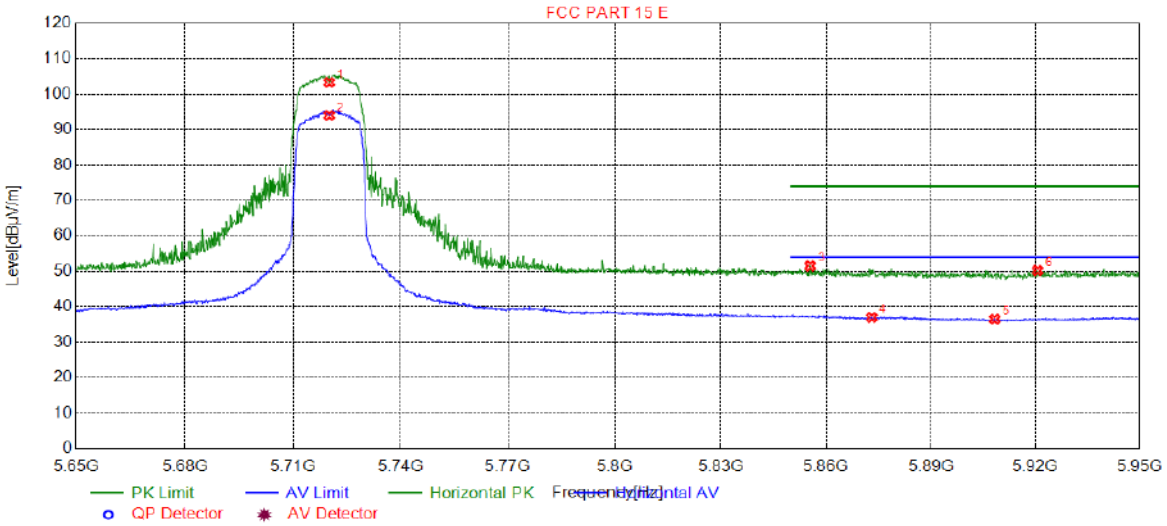
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	92.17	19.17	68.30	-23.87	240	44	Vertical
2	5727.4537	56.89	19.35	68.30	11.41	243	40	Vertical
3	5738.1841	52.30	19.43	68.30	16.00	176	193	Vertical
4	5758.9945	50.19	19.57	68.30	18.11	227	176	Vertical
5	5771.9360	51.39	19.65	68.30	16.91	215	251	Vertical

4.8.1.66 11AC20_140 ANT 1_ Horizontal



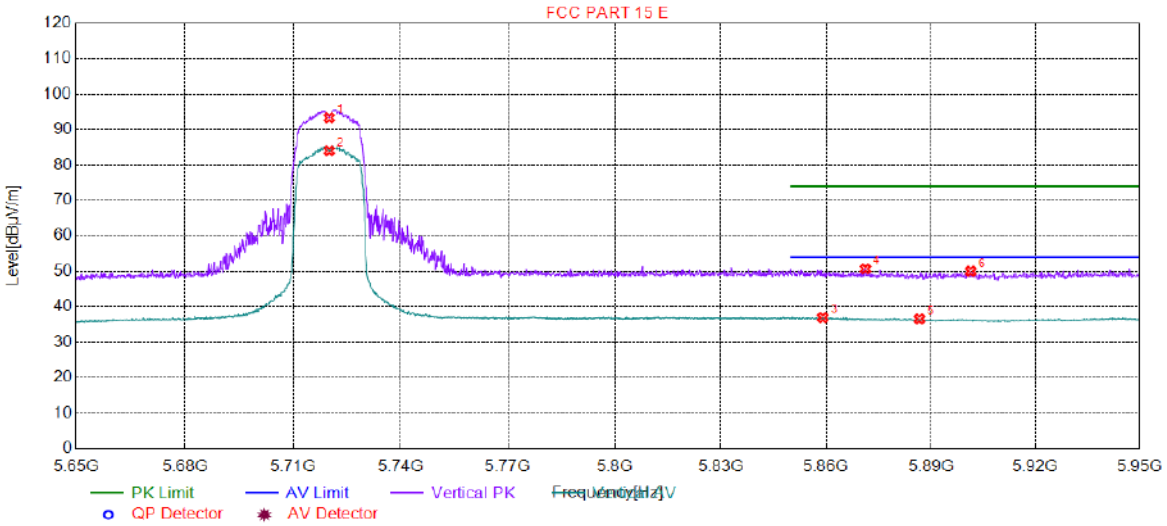
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	102.88	19.17	68.30	-34.58	278	16	Horizontal
2	5726.4132	65.17	19.35	68.30	3.13	176	35	Horizontal
3	5731.4857	64.94	19.38	68.30	3.36	236	16	Horizontal
4	5750.1501	55.70	19.51	68.30	12.60	248	16	Horizontal
5	5775.6428	51.94	19.68	68.30	16.36	284	347	Horizontal

4.8.1.67 11AC20_144 ANT 1_ Horizontal



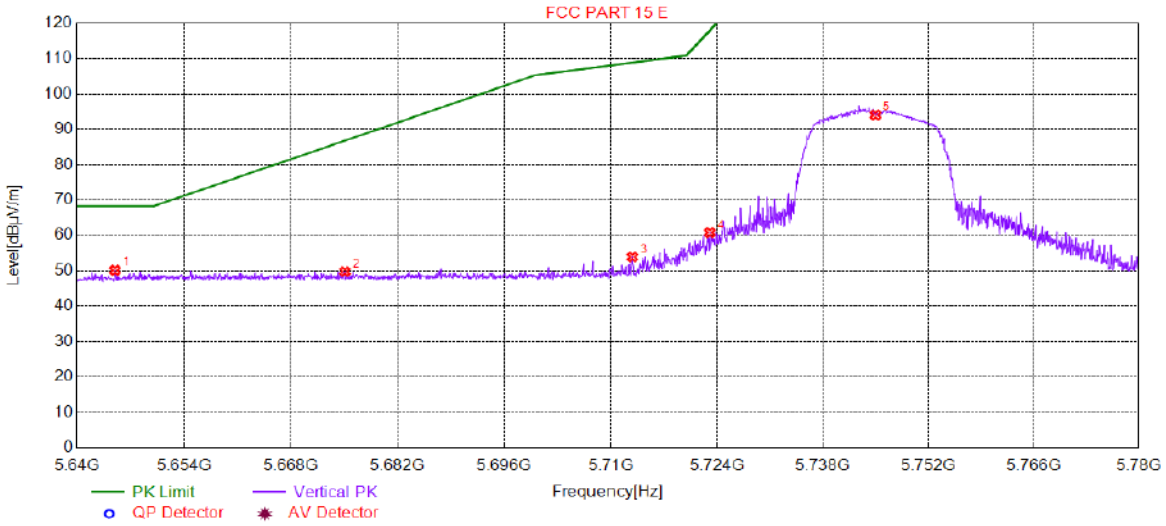
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.0000	103.29	19.80	0.00	-103.29	153	9	Horizontal
2	5720.0000	93.99	19.80	0.00	-93.99	123	16	Horizontal
3	5855.4527	51.53	20.36	74.00	22.47	165	57	Horizontal
4	5873.0115	36.98	20.29	54.00	17.02	135	29	Horizontal
5	5908.2791	36.48	20.25	54.00	17.52	236	221	Horizontal
6	5920.5853	50.24	20.37	74.00	23.76	150	16	Horizontal

4.8.1.68 11AC20_144 ANT 1_ Vertical



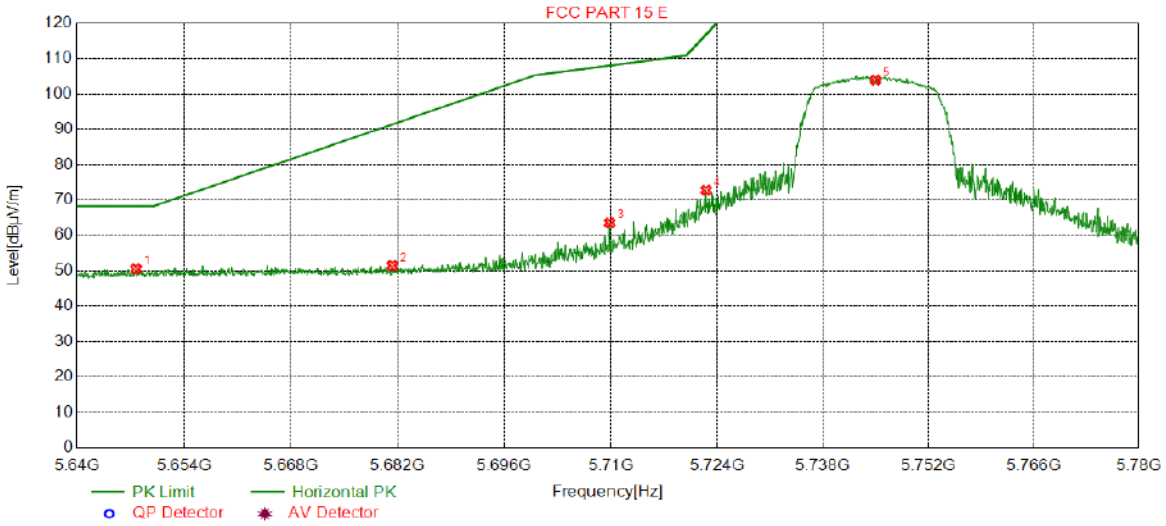
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.0000	93.33	19.80	0.00	-93.33	253	185	Vertical
2	5720.0000	84.04	19.80	0.00	-84.04	166	192	Vertical
3	5859.0545	36.93	20.34	54.00	17.07	266	336	Vertical
4	5871.2106	50.70	20.30	74.00	23.30	252	70	Vertical
5	5886.6683	36.55	20.23	54.00	17.45	280	235	Vertical
6	5901.3757	50.07	20.19	74.00	23.93	155	77	Vertical

4.8.1.69 11AC20_149 ANT 1_Vertical



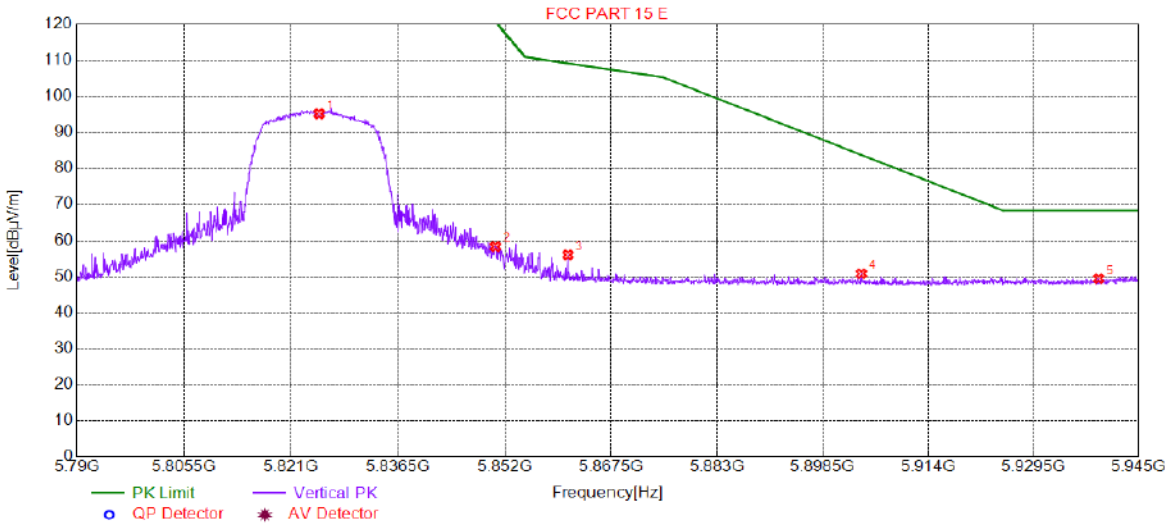
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.9725	50.15	18.74	68.30	18.15	119	344	Vertical
2	5675.0175	49.81	18.98	86.81	37.00	197	314	Vertical
3	5712.8364	53.92	19.26	108.89	54.97	170	51	Vertical
4	5723.0615	60.79	19.32	117.88	57.09	126	56	Vertical
5	5745.0000	94.04	19.47	0.00	-94.04	226	249	Vertical

4.8.1.70 11AC20_149 ANT 1_ Horizontal



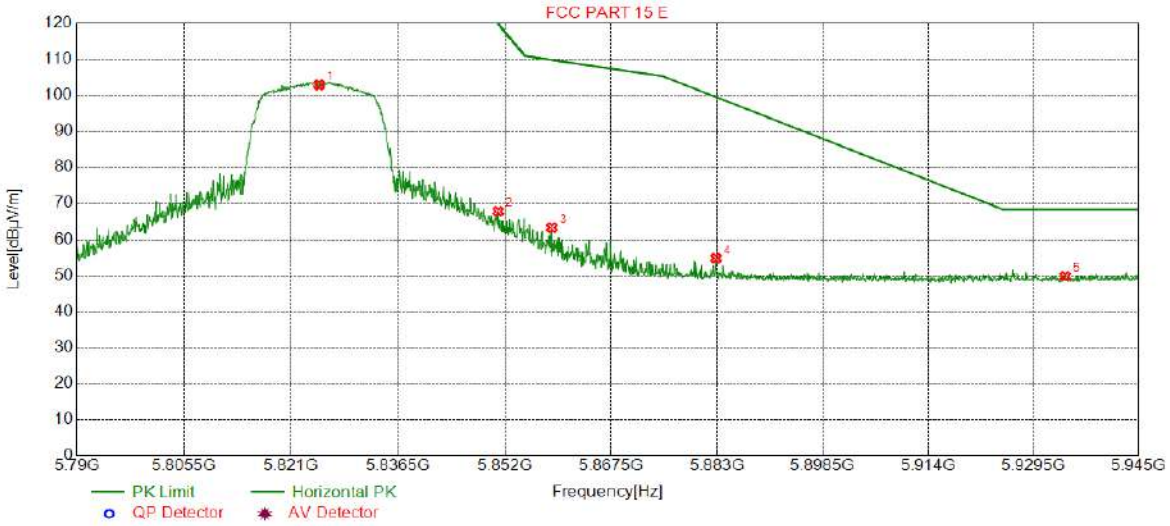
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.7039	50.55	18.76	68.30	17.75	226	16	Horizontal
2	5681.2506	51.47	19.02	91.43	39.96	187	16	Horizontal
3	5709.8249	63.57	19.24	108.05	44.48	263	20	Horizontal
4	5722.5713	72.81	19.32	116.76	43.95	193	29	Horizontal
5	5745.0000	103.88	19.47	0.00	-103.88	266	29	Horizontal

4.8.1.71 11AC20_165 ANT 1_Vertical



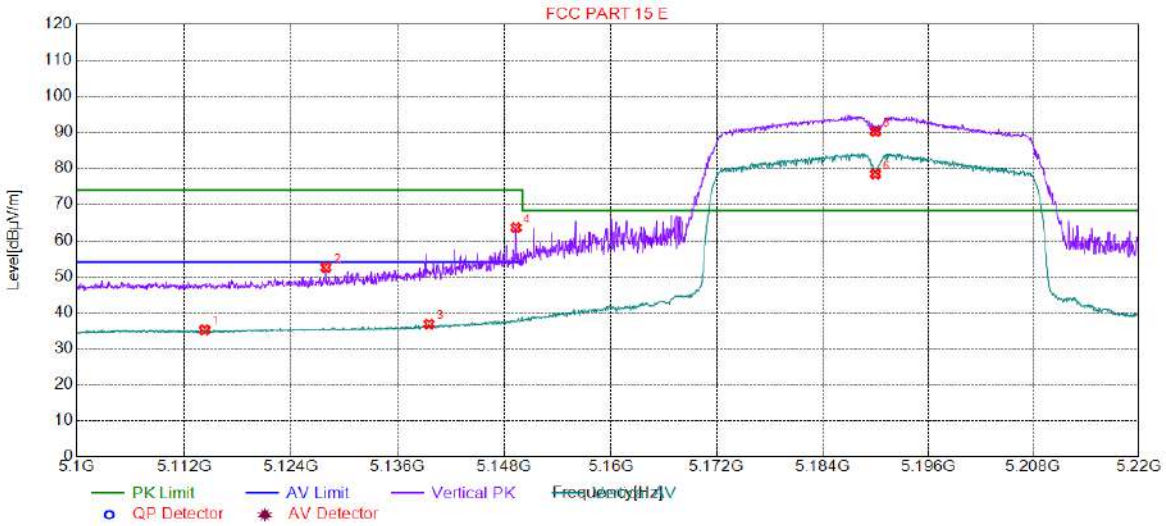
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	95.13	19.79	0.00	-95.13	193	202	Vertical
2	5850.6353	58.30	19.74	120.85	62.55	149	198	Vertical
3	5861.1806	55.98	19.72	109.17	53.19	239	198	Vertical
4	5904.1371	50.78	19.67	83.74	32.96	197	344	Vertical
5	5939.1071	49.40	19.97	68.30	18.90	186	33	Vertical

4.8.1.72 11AC20_165 ANT 1_ Horizontal



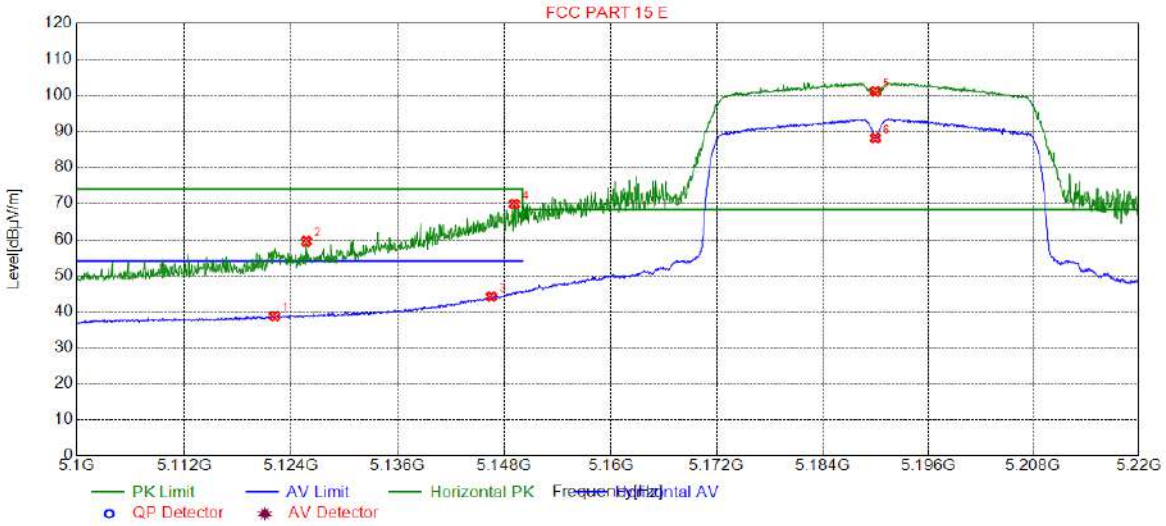
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	102.87	19.79	0.00	-102.87	239	20	Horizontal
2	5851.0230	67.81	19.74	119.97	52.16	190	16	Horizontal
3	5858.8544	63.26	19.72	109.82	46.56	191	25	Horizontal
4	5882.8139	54.75	19.67	99.52	44.77	295	29	Horizontal
5	5934.1446	49.80	19.93	68.30	18.50	208	338	Horizontal

4.8.1.73 11AC40_38 ANT 1_ Vertical



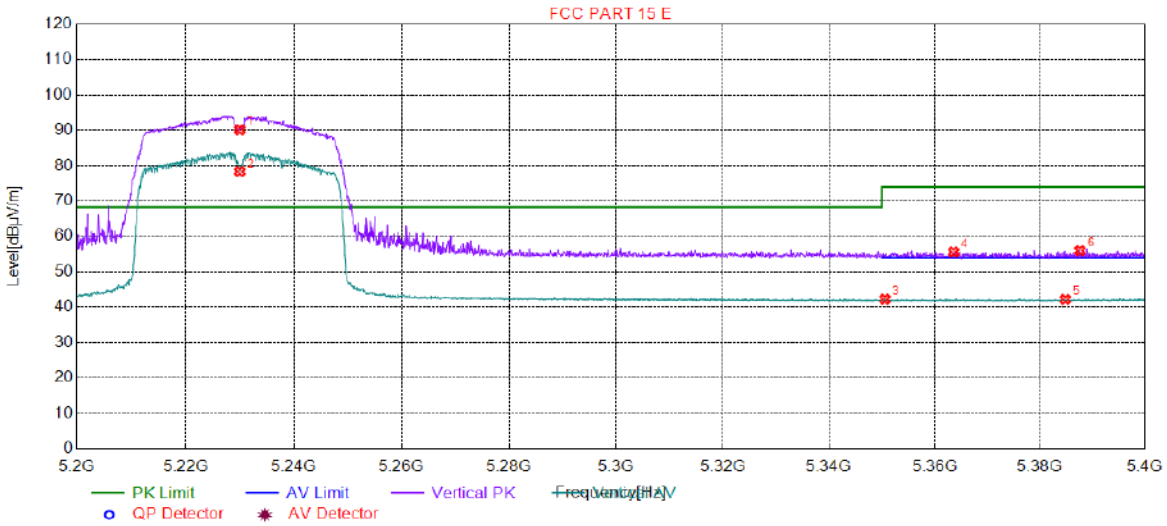
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5114.2871	35.15	17.83	54.00	18.85	219	124	Vertical
2	5127.9140	52.49	17.86	74.00	21.51	142	145	Vertical
3	5139.4998	36.78	17.89	54.00	17.22	199	151	Vertical
4	5149.2846	63.53	17.91	74.00	10.47	215	151	Vertical
5	5190.0000	90.23	18.01	68.30	-21.93	130	129	Vertical
6	5190.0000	78.44	18.01	0.00	-78.44	150	135	Vertical

4.8.1.74 11AC40_38 ANT 1_ Horizontal



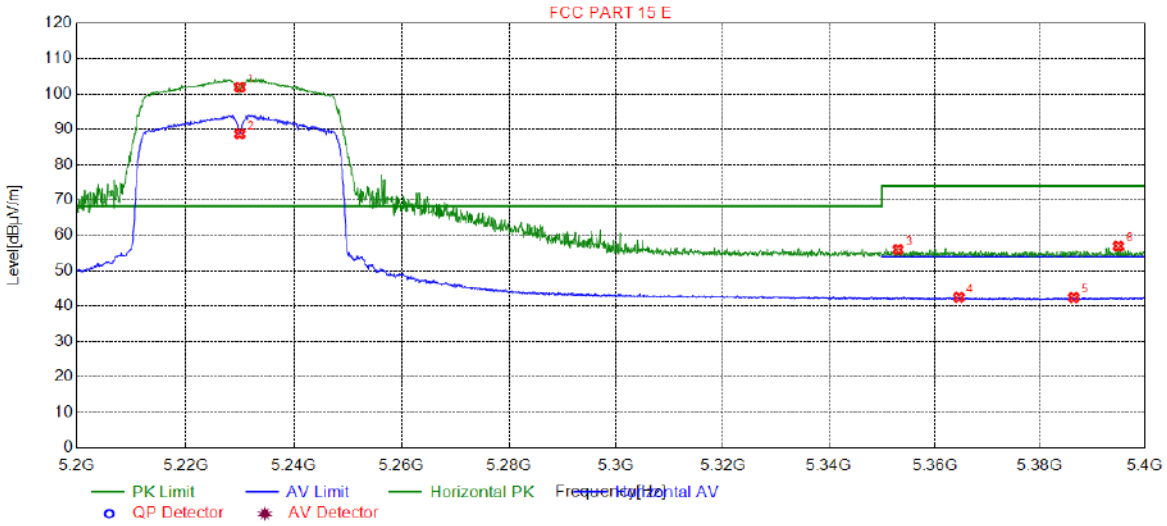
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.1511	38.67	17.85	54.00	15.33	167	41	Horizontal
2	5125.6928	59.48	17.86	74.00	14.52	202	47	Horizontal
3	5146.5233	44.13	17.91	54.00	9.87	299	47	Horizontal
4	5149.1046	69.83	17.91	74.00	4.17	284	14	Horizontal
5	5190.0000	101.06	18.01	68.30	-32.76	154	47	Horizontal
6	5190.0000	88.14	18.01	0.00	-88.14	213	360	Horizontal

4.8.1.75 11AC40_46 ANT 1_ Vertical



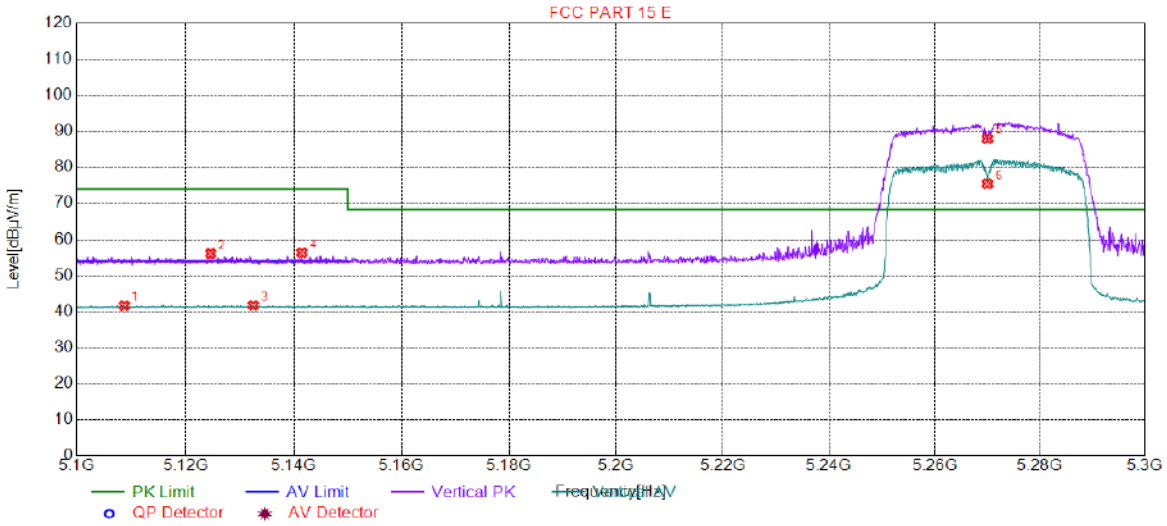
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.0000	90.19	18.10	68.30	-21.89	113	132	Vertical
2	5230.0000	78.32	18.10	0.00	-78.32	237	139	Vertical
3	5350.5753	42.28	18.44	54.00	11.72	169	36	Vertical
4	5363.5818	55.61	18.49	74.00	18.39	145	338	Vertical
5	5384.7924	42.22	18.57	54.00	11.78	226	222	Vertical
6	5387.5938	56.01	18.58	74.00	17.99	191	118	Vertical

4.8.1.76 11AC40_46 ANT 1_ Horizontal



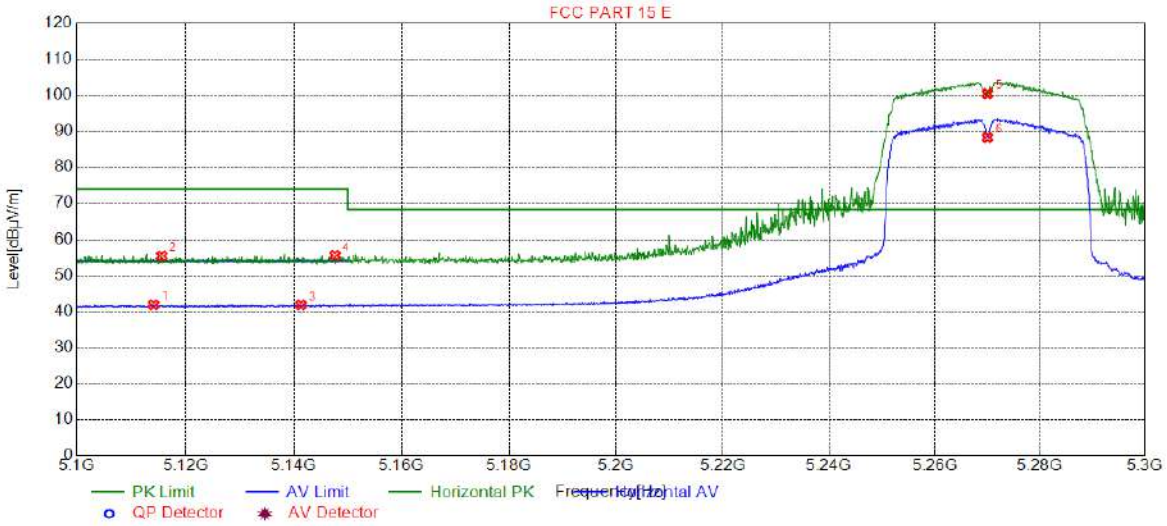
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.0000	101.92	18.10	68.30	-33.62	156	16	Horizontal
2	5230.0000	88.71	18.10	0.00	-88.71	203	16	Horizontal
3	5353.0765	56.03	18.45	74.00	17.97	299	344	Horizontal
4	5364.5823	42.51	18.50	54.00	11.49	162	16	Horizontal
5	5386.3932	42.44	18.58	54.00	11.56	178	29	Horizontal
6	5394.8974	57.00	18.61	74.00	17.00	201	36	Horizontal

4.8.1.77 11AC40_54 ANT 1_ Vertical



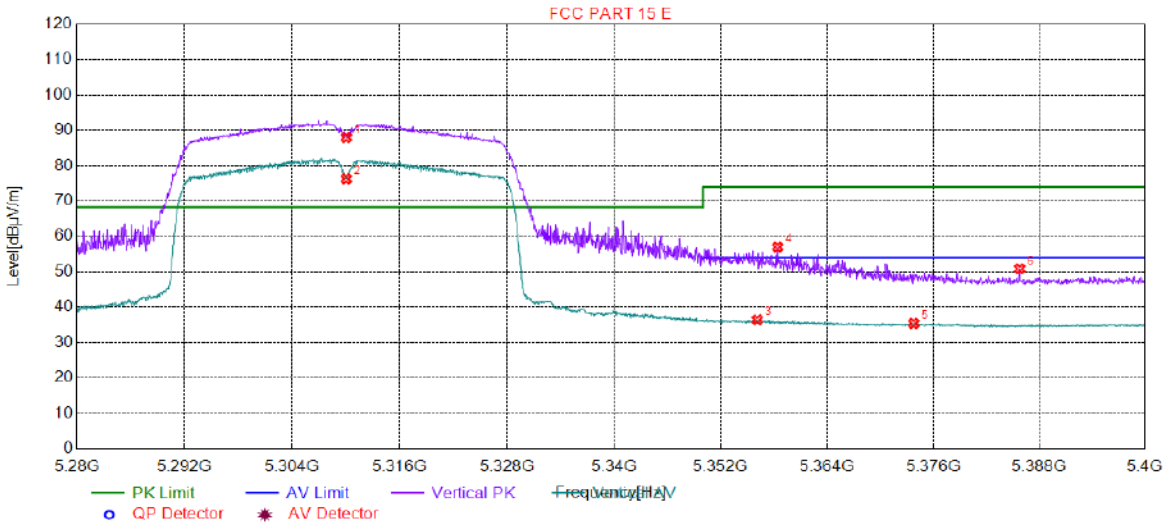
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5108.7044	41.62	17.82	54.00	12.38	109	62	Vertical
2	5124.6123	56.10	17.86	74.00	17.90	190	186	Vertical
3	5132.5163	41.69	17.87	54.00	12.31	244	159	Vertical
4	5141.5208	56.30	17.90	74.00	17.70	143	200	Vertical
5	5270.0000	87.96	18.18	68.30	-19.66	125	138	Vertical
6	5270.0000	75.47	18.18	0.00	-75.47	234	146	Vertical

4.8.1.78 11AC40_54 ANT 1_ Horizontal



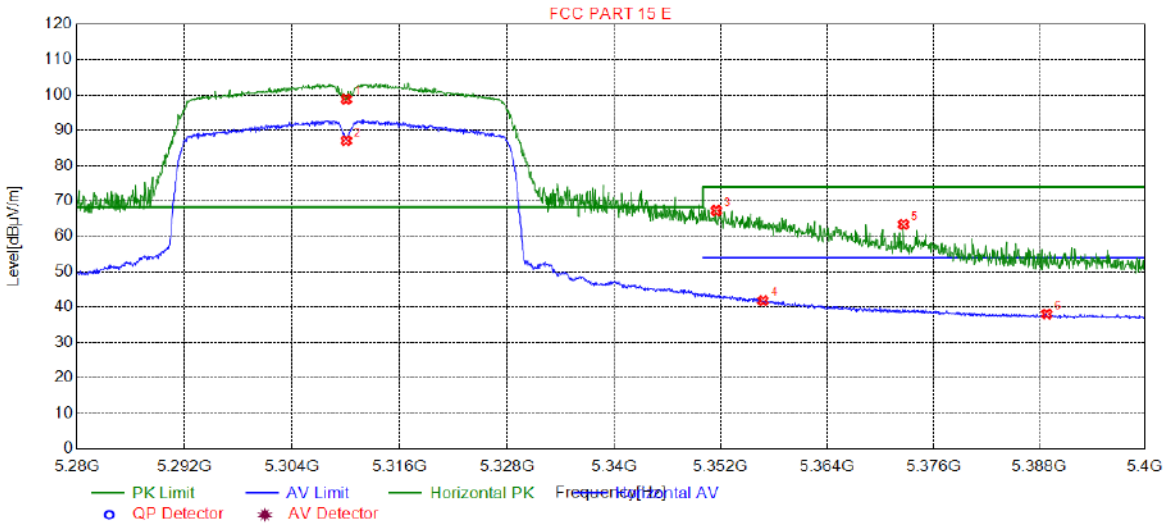
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5114.1071	41.87	17.83	54.00	12.13	199	29	Horizontal
2	5115.6078	55.40	17.84	74.00	18.60	180	43	Horizontal
3	5141.3207	41.85	17.90	54.00	12.15	254	22	Horizontal
4	5147.6238	55.55	17.91	74.00	18.45	271	64	Horizontal
5	5270.0000	100.45	18.18	68.30	-32.15	183	16	Horizontal
6	5270.0000	88.28	18.18	0.00	-88.28	267	16	Horizontal

4.8.1.79 11AC40_62 ANT 1_ Vertical



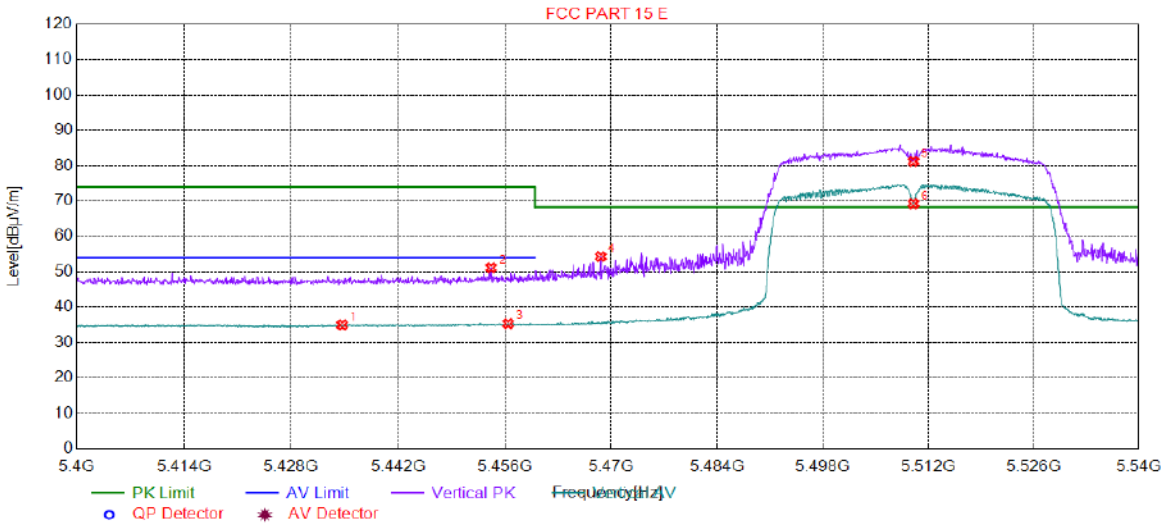
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.0000	87.98	18.29	68.30	-19.68	156	22	Vertical
2	5310.0000	76.29	18.29	0.00	-76.29	113	146	Vertical
3	5356.1181	36.40	18.46	54.00	17.60	171	146	Vertical
4	5358.3992	57.02	18.47	74.00	16.98	194	29	Vertical
5	5373.7669	35.40	18.53	54.00	18.60	157	63	Vertical
6	5385.7729	50.87	18.58	74.00	23.13	223	22	Vertical

4.8.1.80 11AC40_62 ANT 1_ Horizontal



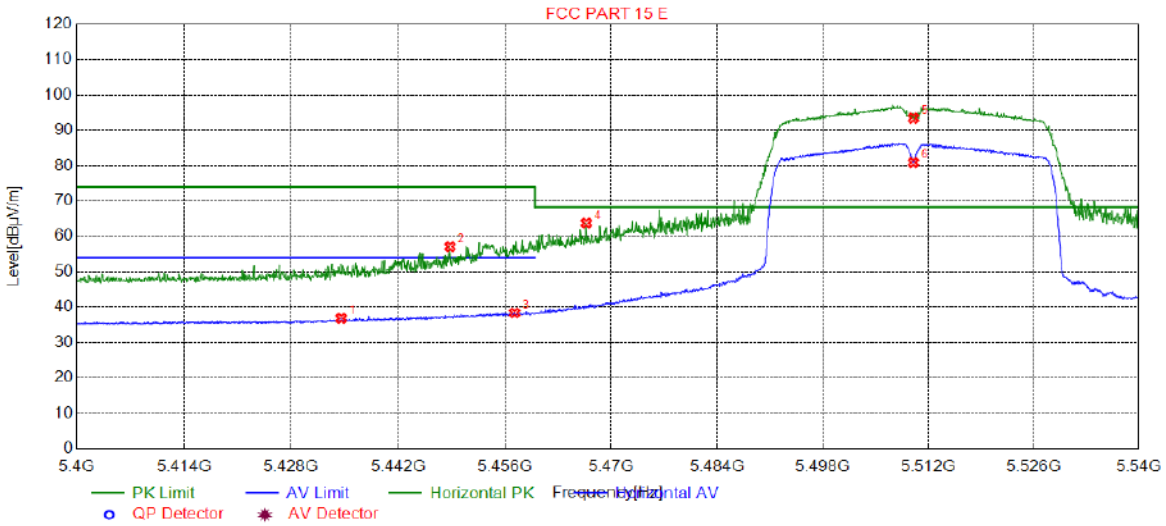
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.0000	98.80	18.29	68.30	-30.50	182	23	Horizontal
2	5310.0000	87.06	18.29	0.00	-87.06	271	16	Horizontal
3	5351.4957	67.34	18.45	74.00	6.66	205	23	Horizontal
4	5356.7784	41.88	18.47	54.00	12.12	190	16	Horizontal
5	5372.6263	63.41	18.53	74.00	10.59	197	16	Horizontal
6	5388.8344	38.05	18.59	54.00	15.95	289	23	Horizontal

4.8.1.81 11AC40_102 ANT 1_ Vertical



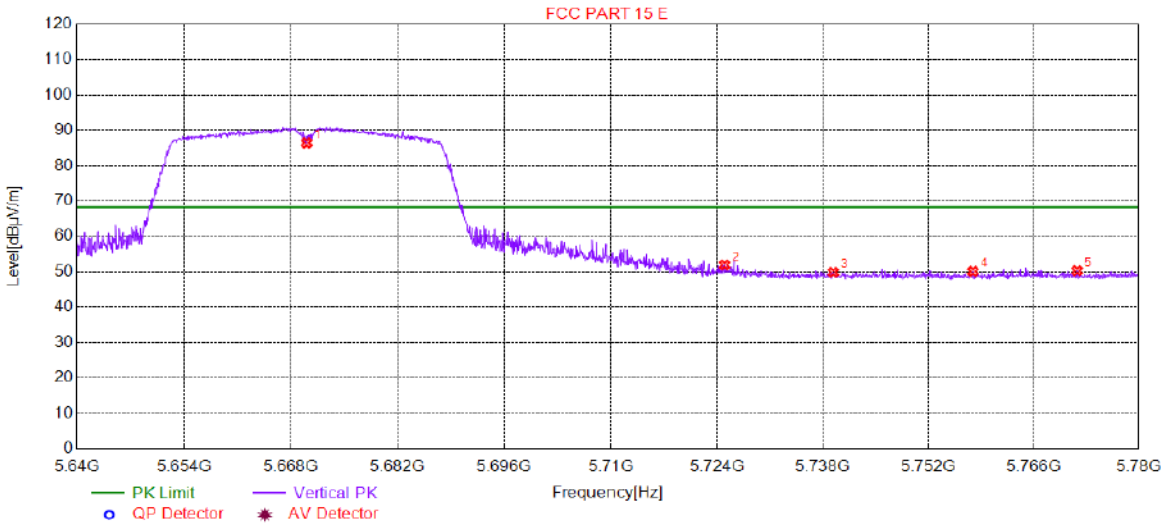
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5434.6673	34.98	18.57	54.00	19.02	150	209	Vertical
2	5454.2071	51.16	18.54	74.00	22.84	126	12	Vertical
3	5456.4482	35.33	18.54	54.00	18.67	189	12	Vertical
4	5468.6343	54.31	18.52	68.30	13.99	218	12	Vertical
5	5510.0000	81.23	18.46	68.30	-12.93	128	30	Vertical
6	5510.0000	69.26	18.46	0.00	-69.26	226	292	Vertical

4.8.1.82 11AC40_102 ANT 1_ Horizontal



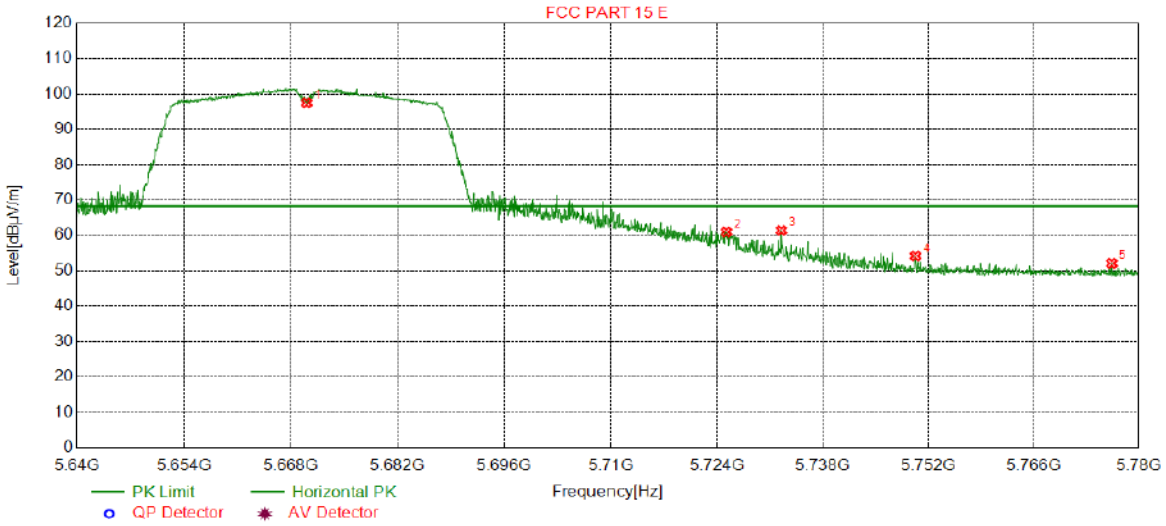
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5434.5273	36.84	18.57	54.00	17.16	263	18	Horizontal
2	5448.8144	57.13	18.55	74.00	16.87	290	358	Horizontal
3	5457.2886	38.38	18.54	54.00	15.62	236	18	Horizontal
4	5466.7434	63.79	18.52	68.30	4.51	176	18	Horizontal
5	5510.0000	93.47	18.46	68.30	-25.17	236	18	Horizontal
6	5510.0000	80.90	18.46	0.00	-80.90	217	18	Horizontal

4.8.1.83 11AC40_134 ANT 1_ Vertical



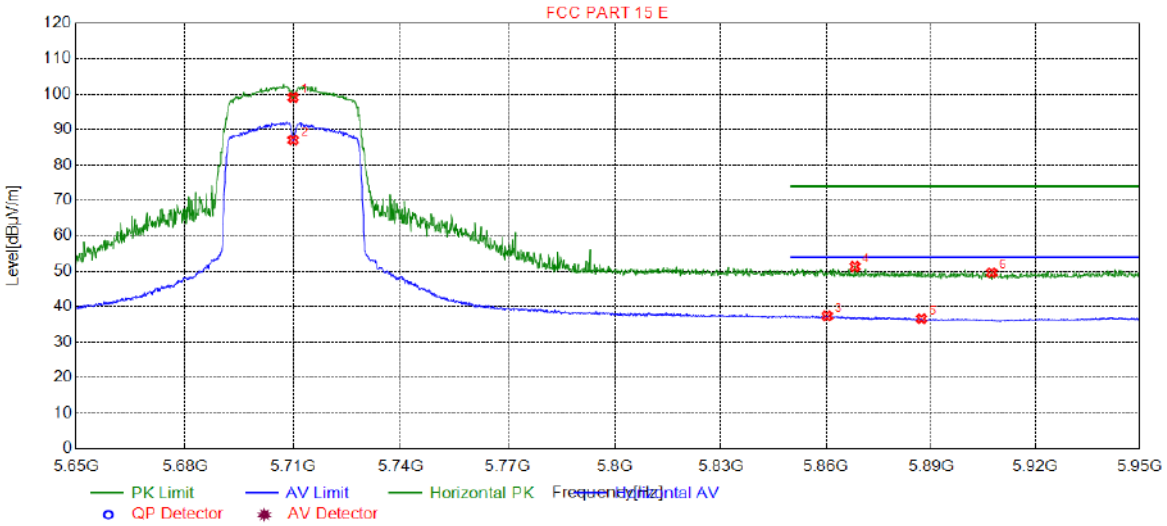
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.0000	86.43	18.94	68.30	-18.13	113	186	Vertical
2	5725.0000	51.94	19.34	68.30	16.36	246	48	Vertical
3	5739.3797	49.88	19.43	68.30	18.42	242	308	Vertical
4	5757.9390	50.13	19.56	68.30	18.17	126	67	Vertical
5	5771.8059	50.33	19.65	68.30	17.97	116	276	Vertical

4.8.1.84 11AC40_134 ANT 1_ Horizontal



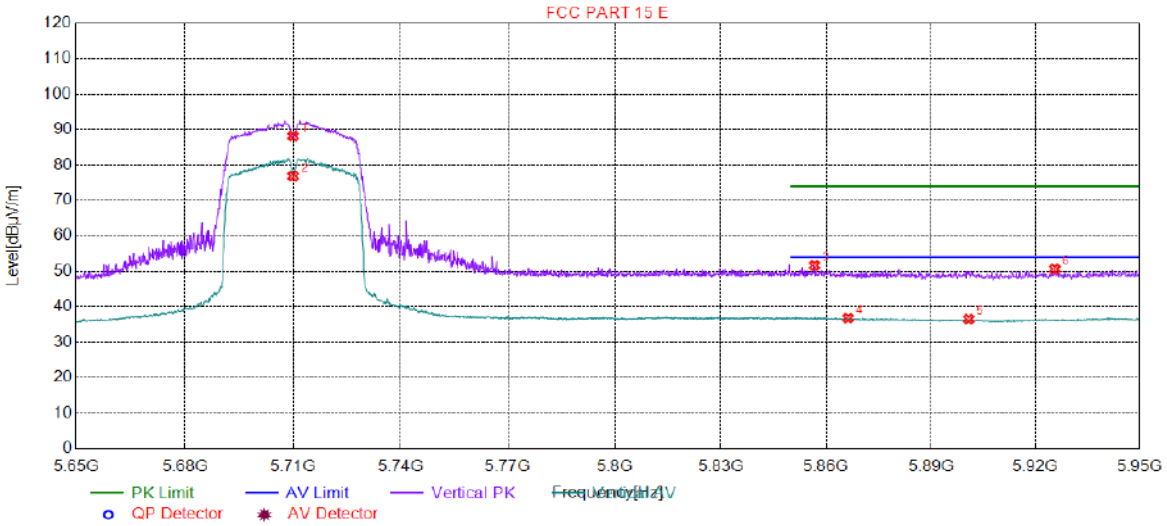
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.0000	97.48	18.94	68.30	-29.18	149	16	Horizontal
2	5725.2326	60.96	19.34	68.30	7.34	141	25	Horizontal
3	5732.5163	61.38	19.39	68.30	6.92	212	30	Horizontal
4	5750.3052	54.19	19.51	68.30	14.11	168	16	Horizontal
5	5776.4282	52.10	19.68	68.30	16.20	106	16	Horizontal

4.8.1.85 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	99.08	19.76	0.00	-99.08	166	13	Horizontal
2	5710.0000	87.03	19.76	0.00	-87.03	285	28	Horizontal
3	5860.2551	37.40	20.34	54.00	16.60	150	28	Horizontal
4	5868.2091	51.35	20.31	74.00	22.65	160	344	Horizontal
5	5887.2686	36.60	20.23	54.00	17.40	244	34	Horizontal
6	5907.3787	49.63	20.25	74.00	24.37	150	278	Horizontal

4.8.1.86 11AC40_142 ANT 1_ Vertical



Suspected List								
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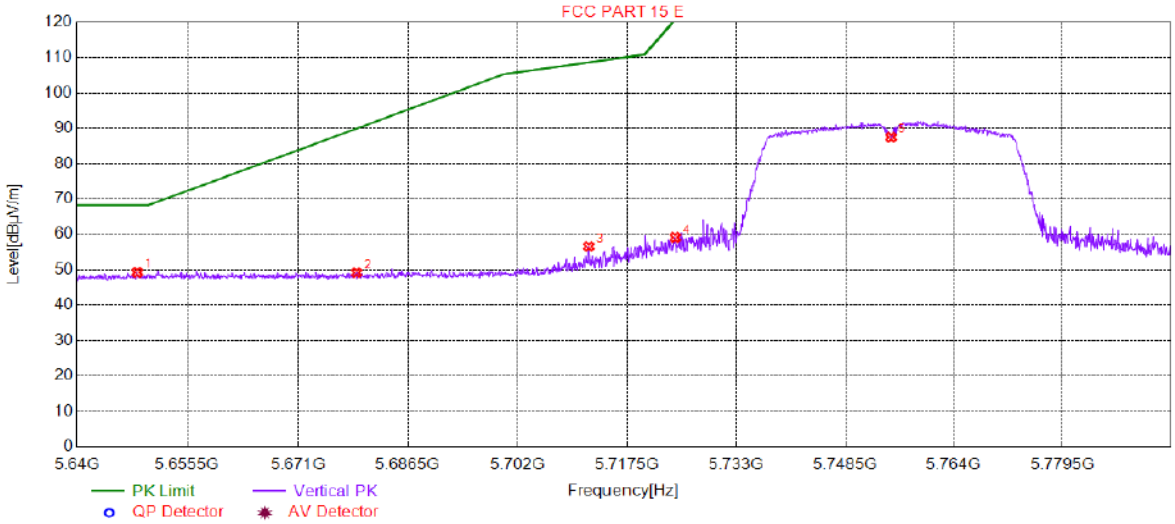
1	5710.0000	88.17	19.76	0.00	-88.17	123	193	Vertical
2	5710.0000	76.87	19.76	0.00	-76.87	185	193	Vertical
3	5856.6533	51.67	20.35	74.00	22.33	193	22	Vertical
4	5866.2581	36.77	20.31	54.00	17.23	232	214	Vertical
5	5900.7754	36.49	20.19	54.00	17.51	204	186	Vertical
6	5925.5378	50.67	20.41	74.00	23.33	117	22	Vertical

4.8.1.87 11AC40_151 ANT 1_ Vertical



Suspected List								
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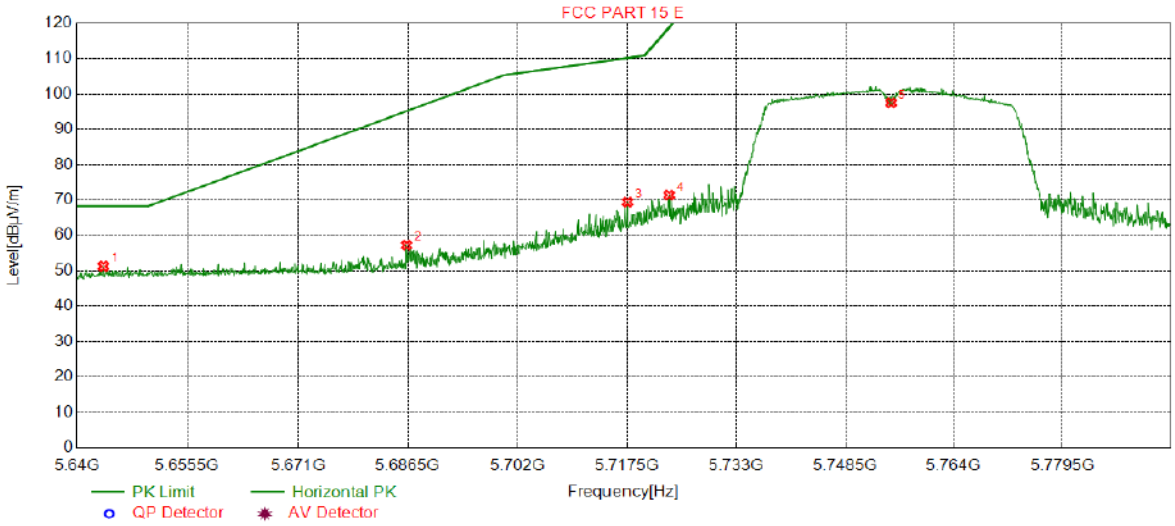
1	5648.4517	49.31	18.77	68.30	18.99	211	212	Vertical
2	5679.2346	49.23	19.01	89.93	40.70	213	185	Vertical
3	5712.0335	56.61	19.25	108.67	52.06	223	51	Vertical
4	5724.2846	59.16	19.33	120.67	61.51	207	51	Vertical
5	5755.0000	87.46	19.54	0.00	-87.46	265	208	Vertical

4.8.1.88 11AC40_151 ANT 1_ Horizontal



Suspected List								
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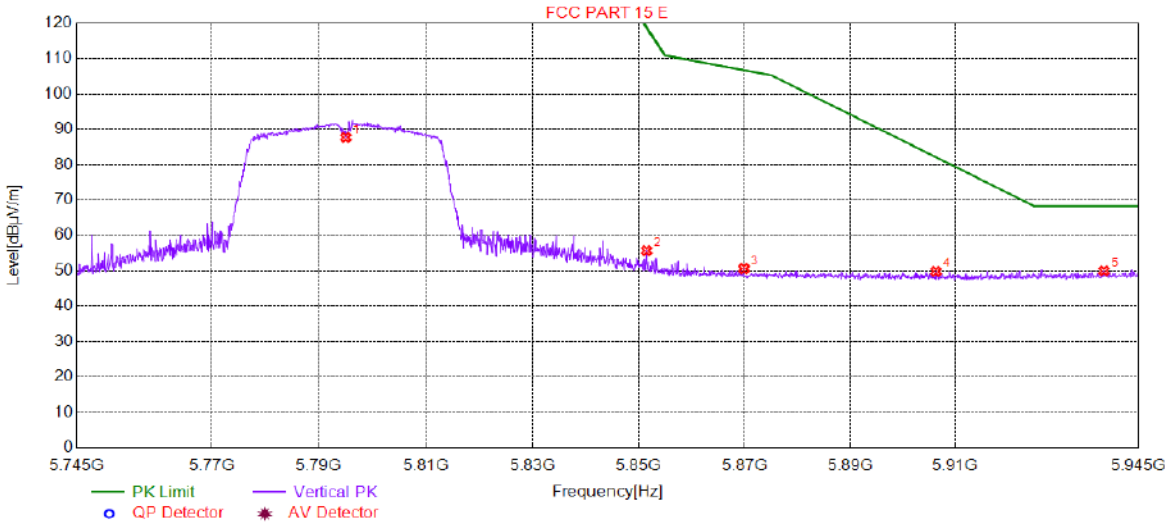
1	5643.7219	51.28	18.73	68.30	17.02	169	16	Horizontal
2	5686.2906	57.27	19.06	95.16	37.89	137	20	Horizontal
3	5717.5388	69.43	19.29	110.21	40.78	221	16	Horizontal
4	5723.4317	71.41	19.33	118.72	47.31	122	29	Horizontal
5	5755.0000	97.50	19.54	0.00	-97.50	188	20	Horizontal

4.8.1.89 11AC40_159 ANT 1_ Vertical



Suspected List								
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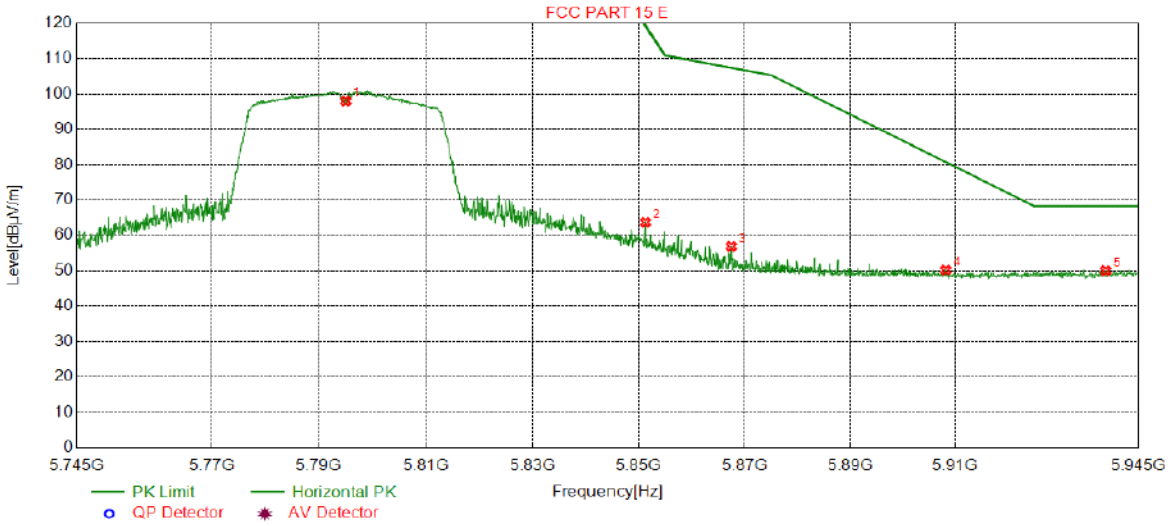
1	5795.0000	87.71	19.81	0.00	-87.71	291	55	Vertical
2	5851.4532	55.70	19.74	118.99	63.29	163	206	Vertical
3	5869.8624	50.61	19.70	106.74	56.13	210	196	Vertical
4	5906.2806	49.84	19.69	82.15	32.31	157	27	Vertical
5	5938.3967	50.01	19.96	68.30	18.29	234	192	Vertical

4.8.1.90 11AC40_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	98.00	19.81	0.00	-98.00	145	16	Horizontal
2	5851.2531	63.71	19.74	119.44	55.73	185	34	Horizontal
3	5867.4612	56.92	19.71	107.41	50.49	110	16	Horizontal
4	5908.1816	50.22	19.71	80.75	30.53	225	16	Horizontal
5	5938.6968	50.05	19.97	68.30	18.25	173	225	Horizontal

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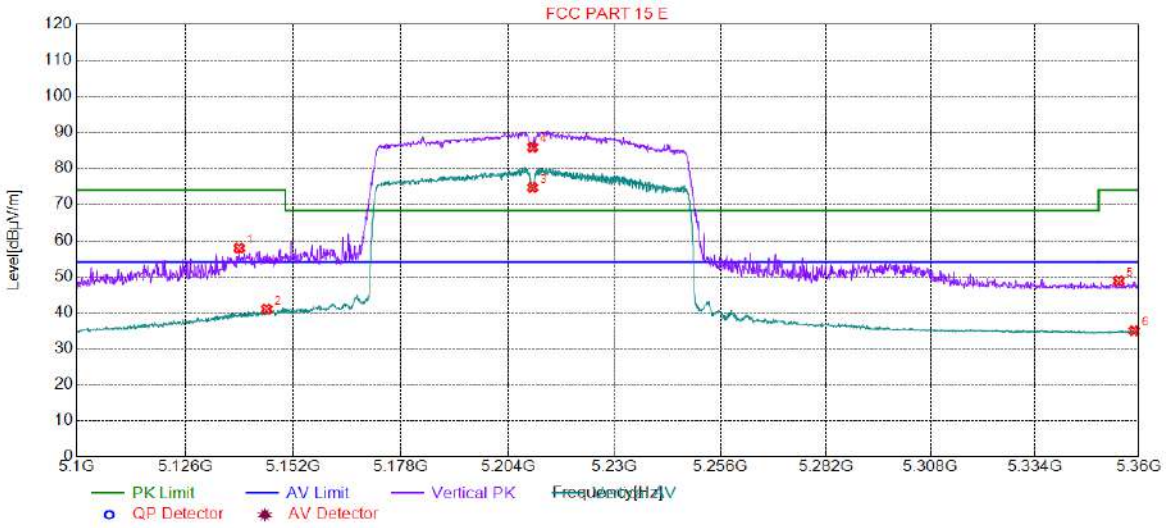
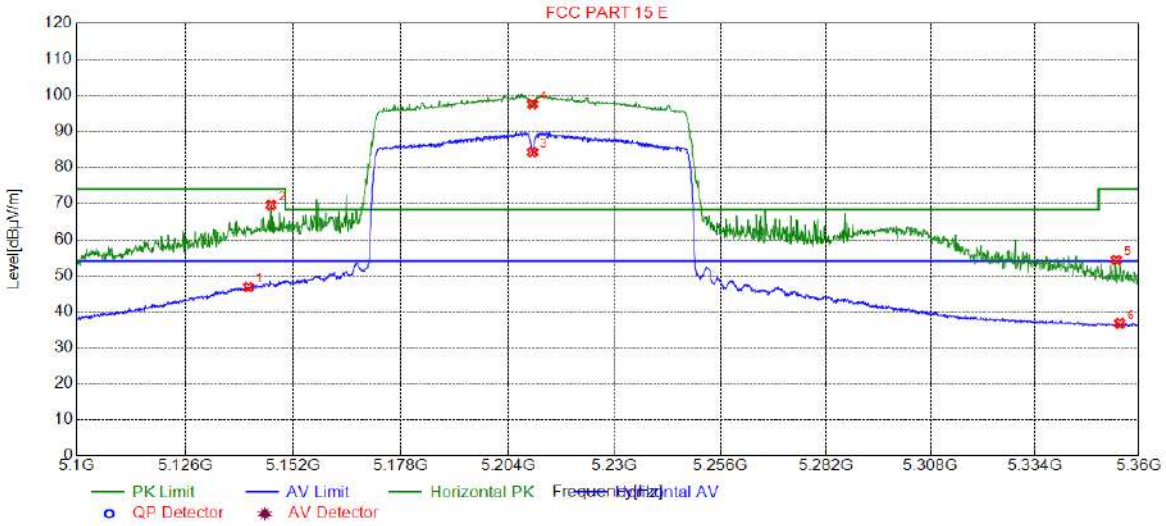
4.8.1.91 11AC80_42 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5138.8894	57.85	17.89	74.00	16.15	299	141	Vertical
2	5145.5228	40.95	17.90	54.00	13.05	258	141	Vertical
3	5210.0000	74.70	18.05	54.00	-20.70	235	134	Vertical
4	5210.0000	85.86	18.05	68.30	-17.56	163	134	Vertical
5	5355.0575	48.78	18.46	74.00	25.22	208	45	Vertical
6	5358.8294	34.91	18.47	54.00	19.09	233	19	Vertical

4.8.1.92 11AC80_42 ANT 1_ Horizontal



Suspected List								
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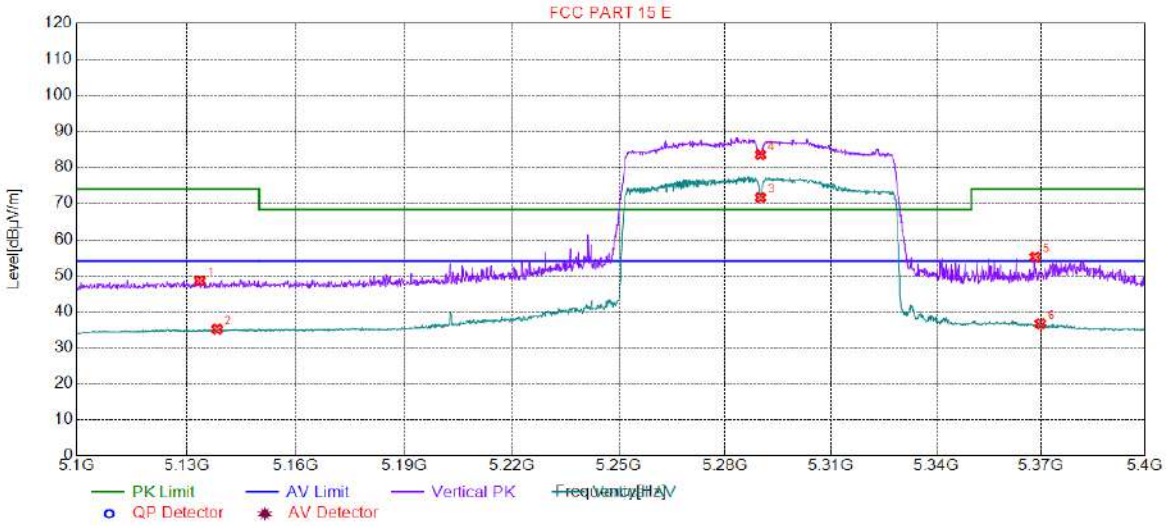
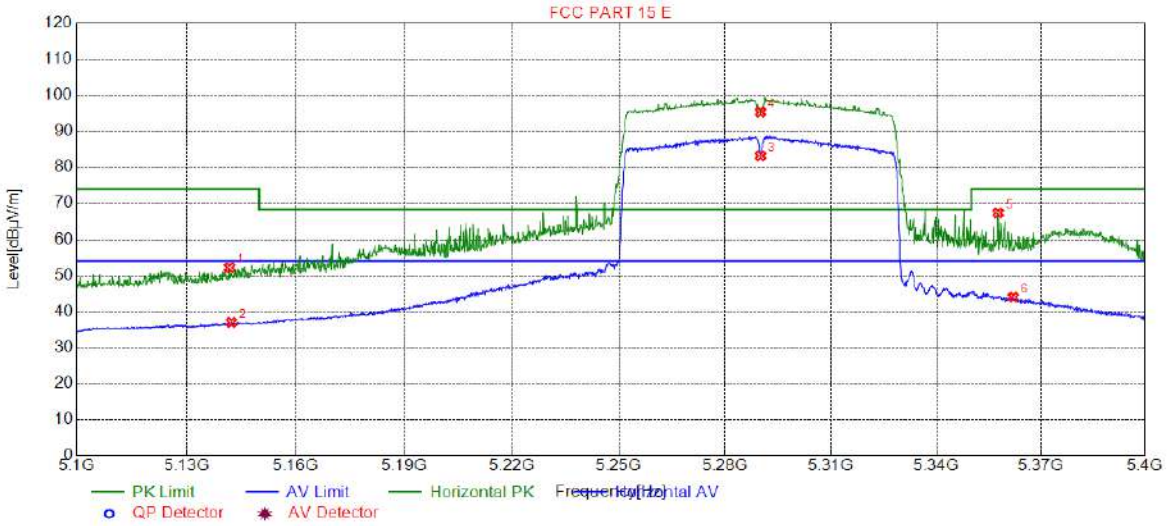
1	5141.1006	46.79	17.89	54.00	7.21	204	42	Horizontal
2	5146.5633	69.53	17.91	74.00	4.47	124	49	Horizontal
3	5210.0000	84.23	18.05	54.00	-30.23	109	16	Horizontal
4	5210.0000	97.55	18.05	68.30	-29.25	116	49	Horizontal
5	5354.4072	54.28	18.46	74.00	19.72	205	16	Horizontal
6	5355.3177	36.72	18.46	54.00	17.28	208	16	Horizontal

4.8.1.93 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	5133.6168	48.54	17.88	74.00	25.46	252	174	Vertical
2	5138.4192	35.08	17.89	54.00	18.92	249	256	Vertical
3	5290.0000	71.60	18.23	54.00	-17.60	268	134	Vertical
4	5290.0000	83.55	18.23	68.30	-15.25	228	17	Vertical
5	5368.3342	55.09	18.51	74.00	18.91	187	52	Vertical
6	5369.8349	36.59	18.52	54.00	17.41	235	24	Vertical

4.8.1.94 11AC80_58 ANT 1_ Horizontal



Suspected List								
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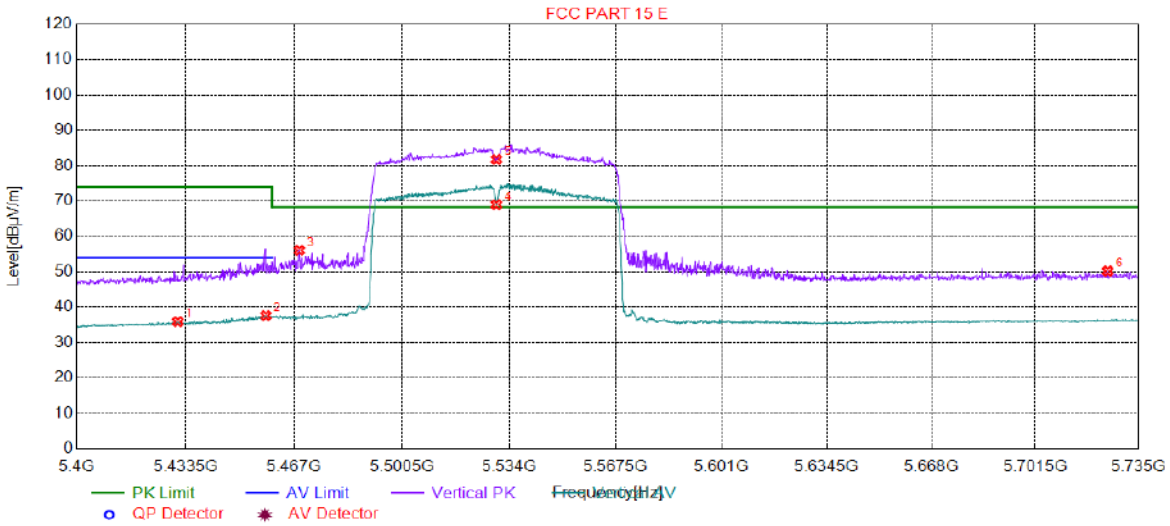
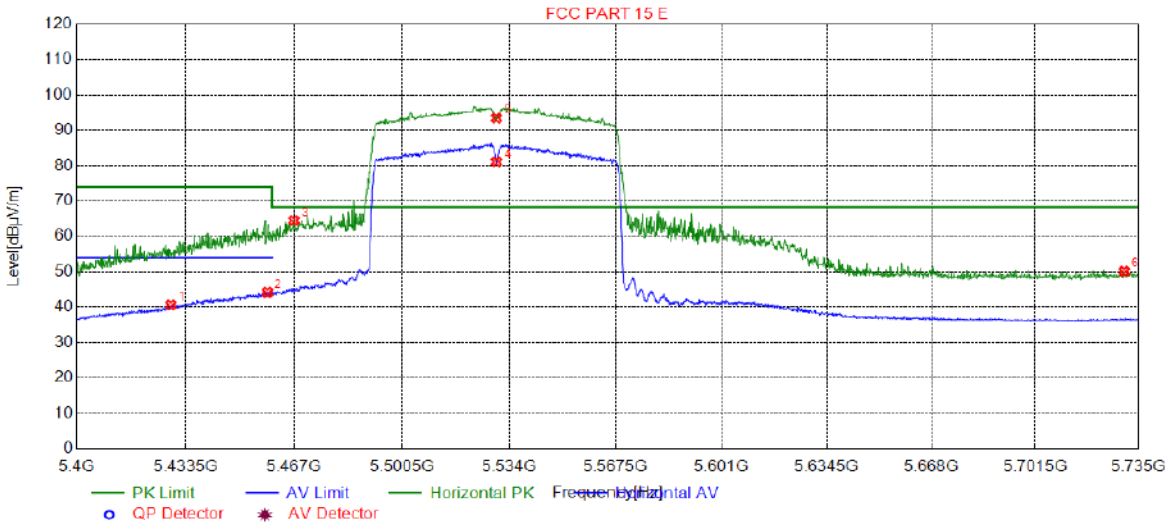
1	5141.8709	52.19	17.90	74.00	21.81	222	63	Horizontal
2	5142.3212	36.96	17.90	54.00	17.04	215	49	Horizontal
3	5290.0000	83.22	18.23	54.00	-29.22	147	16	Horizontal
4	5290.0000	95.31	18.23	68.30	-27.01	174	56	Horizontal
5	5357.6788	67.38	18.47	74.00	6.62	167	360	Horizontal
6	5362.0310	43.99	18.49	54.00	10.01	233	16	Horizontal

4.8.1.95 11AC80_106 ANT 1_ Vertical



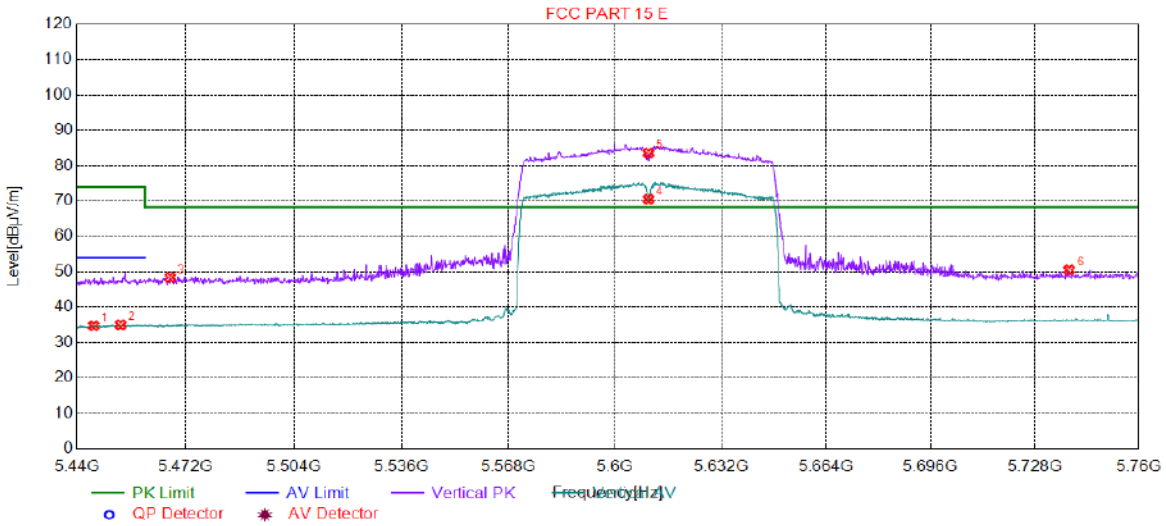
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5431.0030	35.89	18.58	54.00	18.11	159	28	Vertical
2	5458.1516	37.61	18.54	54.00	16.39	297	28	Vertical
3	5468.5418	56.08	18.52	68.30	12.22	296	35	Vertical
4	5530.0000	68.99	18.45	0.00	-68.99	218	195	Vertical
5	5530.0000	81.78	18.45	68.30	-13.48	186	188	Vertical
6	5725.0000	50.22	19.34	68.30	18.08	262	112	Vertical

4.8.1.96 11AC80_106 ANT 1_ Horizontal



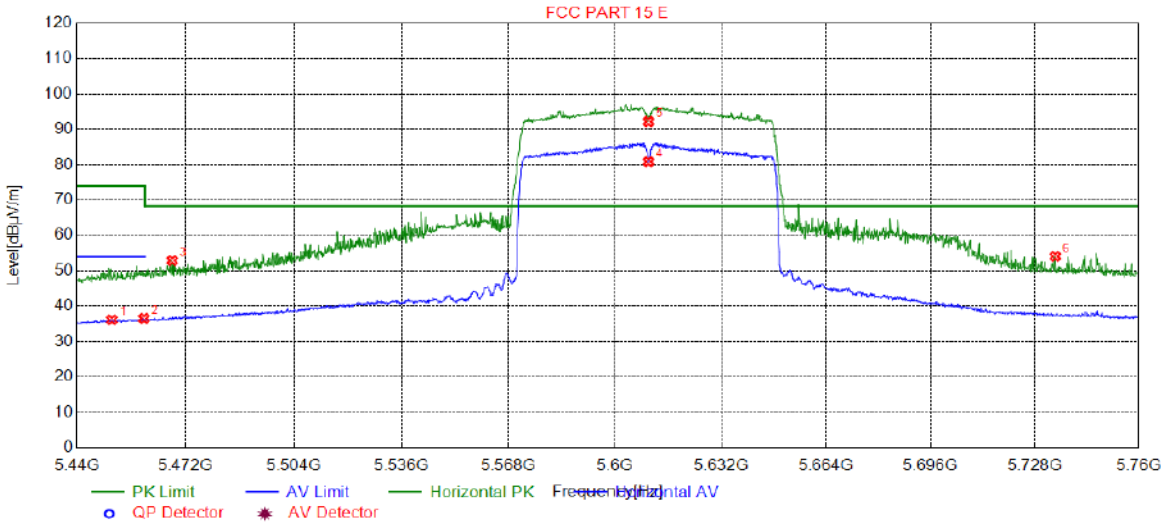
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5428.8244	40.68	18.58	54.00	13.32	167	16	Horizontal
2	5458.6543	44.23	18.54	54.00	9.77	230	16	Horizontal
3	5466.8659	64.52	18.52	68.30	3.78	207	16	Horizontal
4	5530.0000	81.10	18.45	0.00	-81.10	248	16	Horizontal
5	5530.0000	93.49	18.45	68.30	-25.19	207	22	Horizontal
6	5730.3077	50.14	19.37	68.30	18.16	153	345	Horizontal

4.8.1.97 11AC80_122 ANT 1_ Vertical



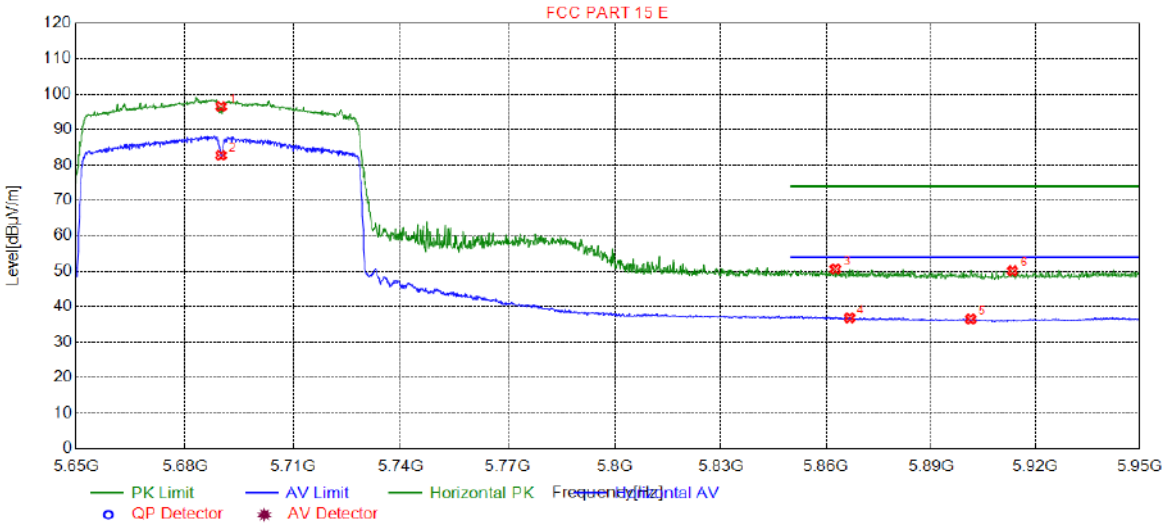
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5444.9625	34.73	18.56	54.00	19.27	168	255	Vertical
2	5452.8064	35.01	18.55	54.00	18.99	202	248	Vertical
3	5467.3737	48.42	18.52	68.30	19.88	288	186	Vertical
4	5610.0000	70.51	18.47	0.00	-70.51	184	49	Vertical
5	5610.0000	83.61	18.47	68.30	-15.31	165	42	Vertical
6	5738.5493	50.56	19.43	68.30	17.74	218	324	Vertical

4.8.1.98 11AC80_122 ANT 1_ Horizontal



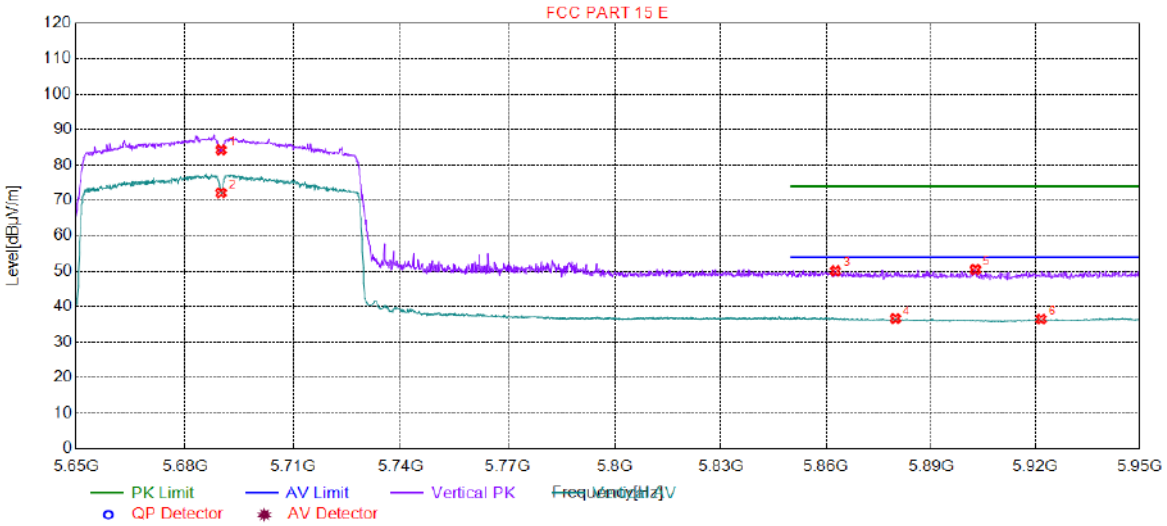
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5450.2451	36.13	18.55	54.00	17.87	156	16	Horizontal
2	5459.6898	36.50	18.53	54.00	17.50	172	16	Horizontal
3	5468.0140	52.90	18.52	68.30	15.40	245	16	Horizontal
4	5610.0000	80.86	18.47	0.00	-80.86	211	22	Horizontal
5	5610.0000	92.21	18.47	68.30	-23.91	126	16	Horizontal
6	5734.2271	54.09	19.40	68.30	14.21	123	16	Horizontal

4.8.1.99 11AC80_138 ANT 1_ Horizontal



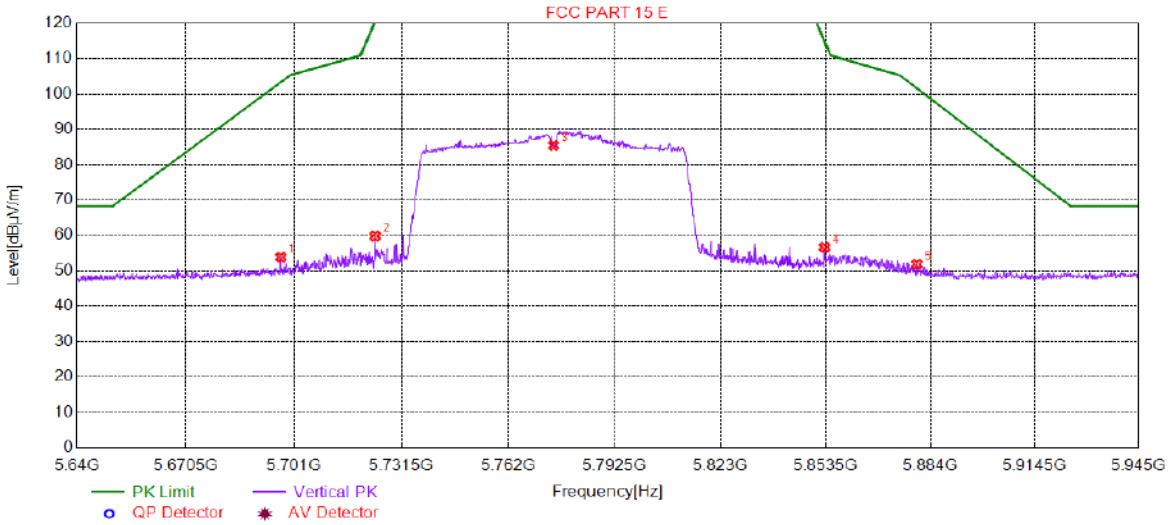
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.00	96.49	19.66	0.00	-96.49	222	21	Horizontal
2	5690.00	82.75	19.66	0.00	-82.75	282	21	Horizontal
3	5862.65	50.65	20.33	74.00	23.35	197	8	Horizontal
4	5866.70	36.84	20.31	54.00	17.16	266	21	Horizontal
5	5901.37	36.50	20.19	54.00	17.50	231	35	Horizontal
6	5913.38	50.15	20.30	74.00	23.85	197	222	Horizontal

4.8.1.100 11AC80_138 ANT 1_ Vertical



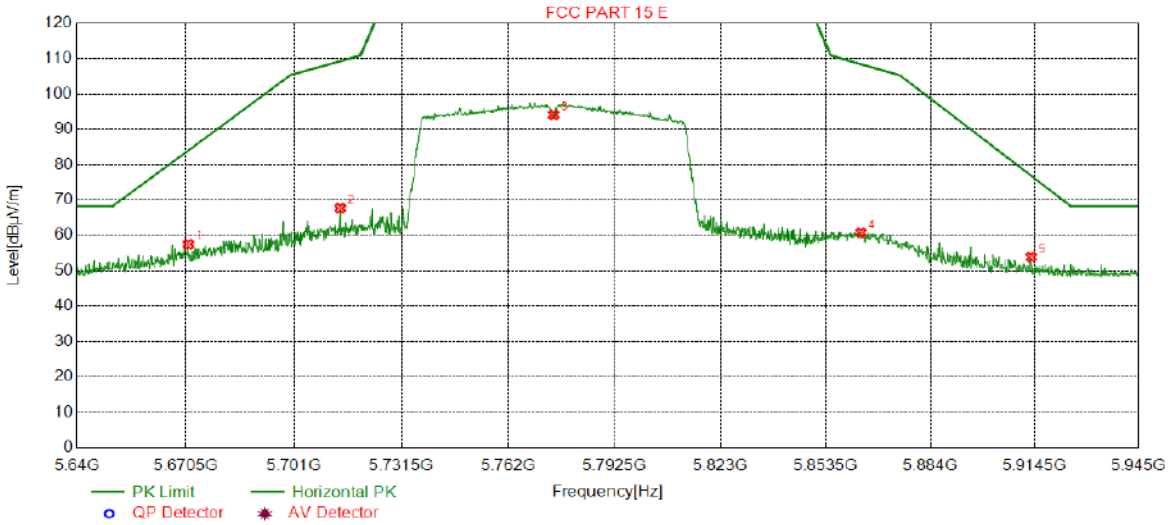
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.00	84.28	19.66	0.00	-84.28	148	192	Vertical
2	5690.00	72.13	19.66	0.00	-72.13	253	192	Vertical
3	5862.65	50.15	20.33	74.00	23.85	196	16	Vertical
4	5879.76	36.65	20.26	54.00	17.35	154	50	Vertical
5	5902.72	50.50	20.20	74.00	23.50	149	260	Vertical
6	5921.63	36.50	20.37	54.00	17.50	172	267	Vertical

4.8.1.101 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	5697.3687	53.86	19.15	103.35	49.49	246	247	Vertical
2	5724.0695	59.82	19.33	120.18	60.36	268	243	Vertical
3	5775.0000	85.47	19.67	122.30	36.83	331	52	Vertical
4	5853.1491	56.67	19.73	115.12	58.45	207	57	Vertical
5	5880.0025	51.87	19.68	101.60	49.73	294	207	Vertical

4.8.1.102 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	5671.2781	57.52	18.95	84.05	26.53	121	24	Horizontal
2	5714.1521	67.73	19.26	109.26	41.53	261	20	Horizontal
3	5775.0000	94.10	19.67	122.30	28.20	245	16	Horizontal
4	5863.6768	60.77	19.71	108.47	47.70	173	24	Horizontal
5	5913.4167	53.91	19.75	76.87	22.96	194	16	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.

4.9 Frequencies Stability

4.9.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.004921	5825.007955
V max(V)	5180.012335	5825.008627
V min(V)	5180.009081	5825.006371
Max. Deviation Frequency	0.012335	0.008627
Max. Frequency Error (ppm)	2.381351	1.480957

4.9.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.006314	5825.009856
5	5180.007751	5825.002400
15	5180.007733	5825.010544
25	5180.013151	5825.015275
35	5180.012867	5825.022038
45	5180.011759	5825.002795
50	5180.003918	5824.998131
Max. Deviation Frequency	0.013151	0.022038
Max. Frequency Error (ppm)	2.538894	3.783428

4.10 Dynamic Frequency Selection

4.10.1 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
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	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
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	**Master Device or Client with Radar Detection**	**Client Without Radar Detection**
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	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.		

4.10.2 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 ≥ 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.	

4.10.3 Response Requirements

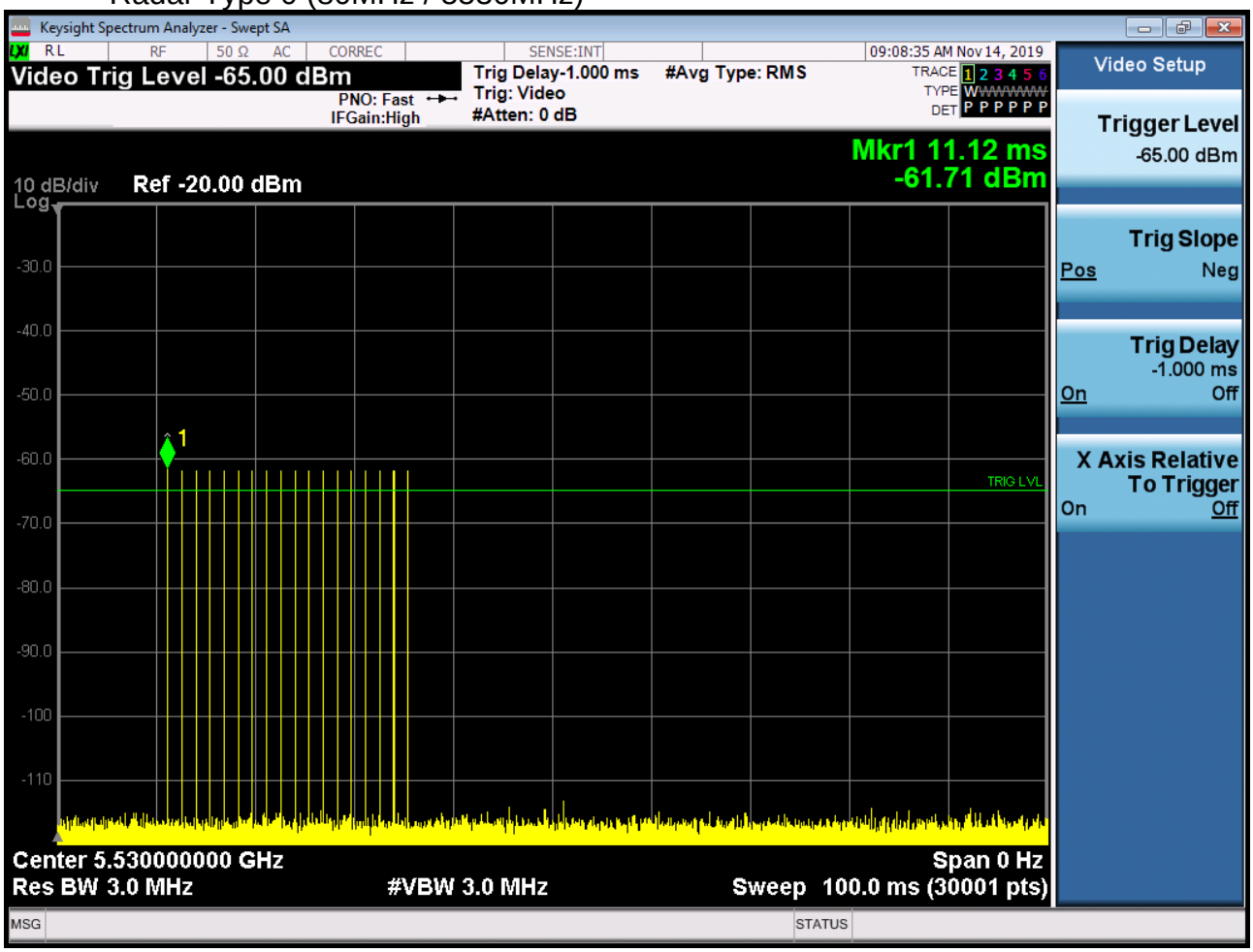
Table 4: DFS Response Requirement Values

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.	

4.10.4 Test plots

4.10.4.1 Radar Waveform Calibration Result

Radar Type 0 (80MHz / 5530MHz)

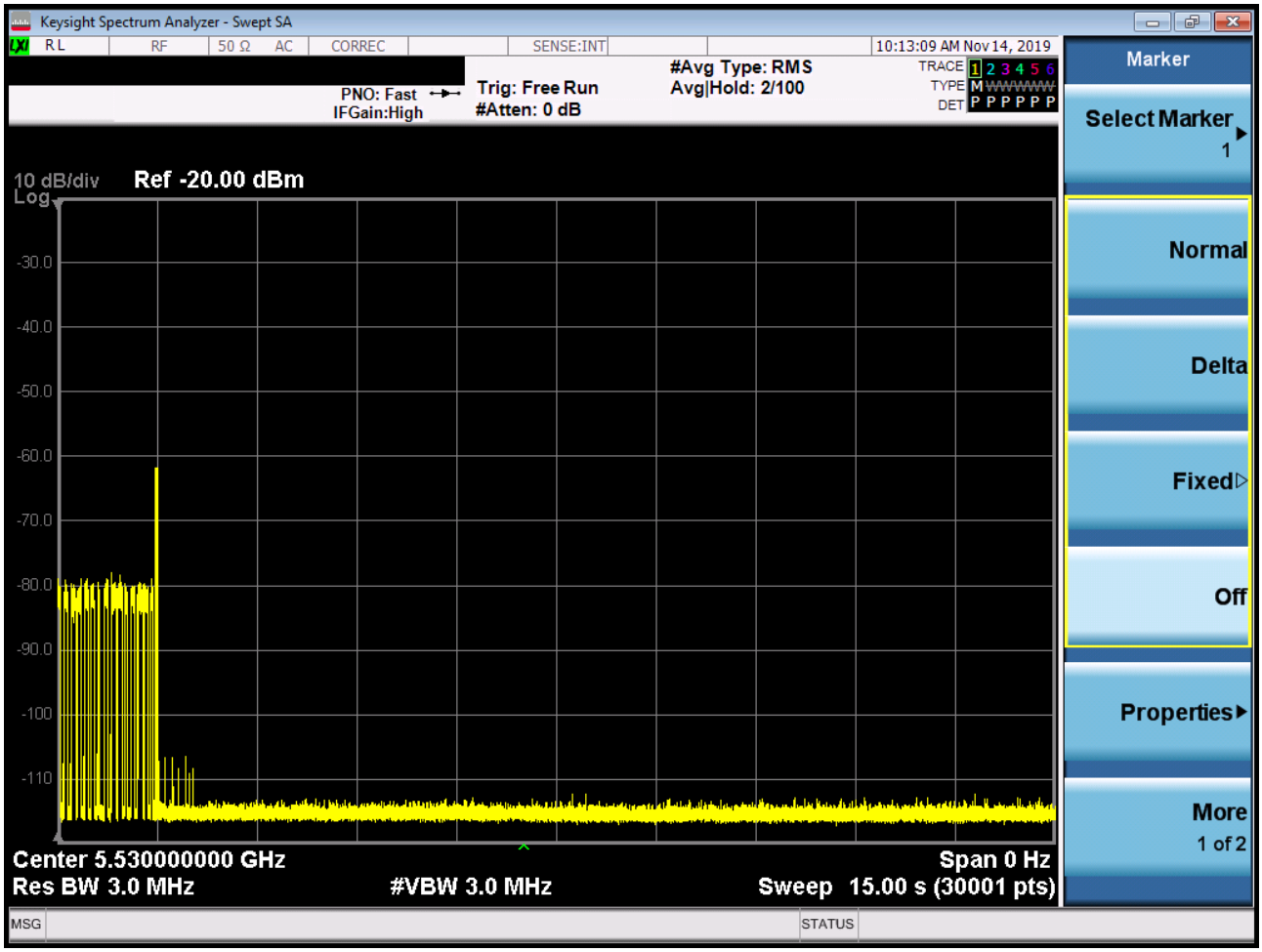


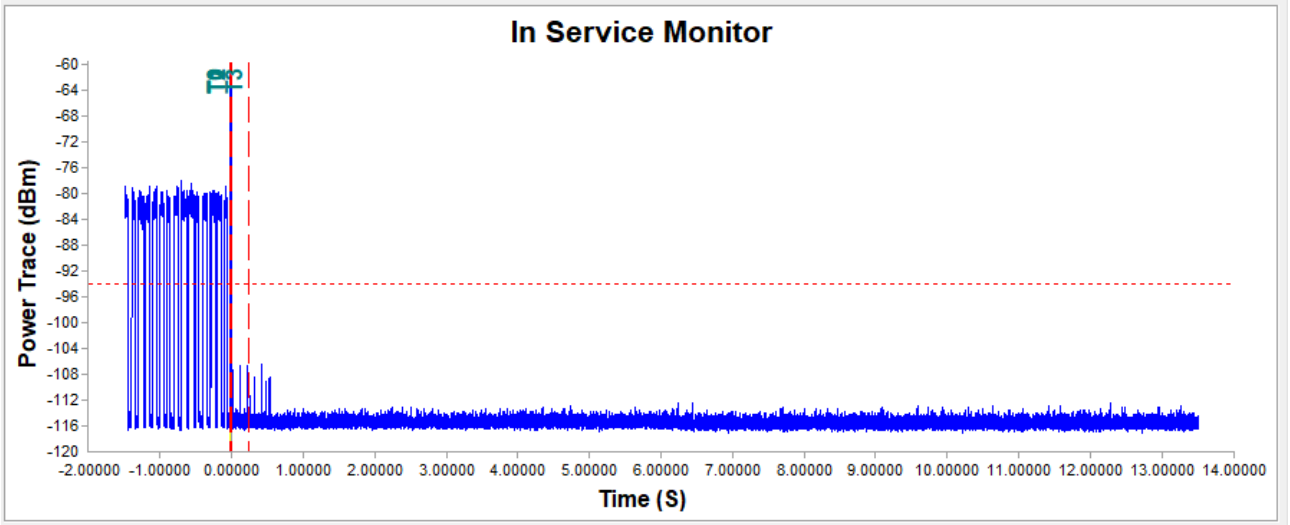
4.10.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5530MHz	Channel Move Time	0s	＜10s	Pass
	Channel Closing Transmission Time	9ms	＜60ms	Pass

4.10.5.1 Test plots

4.10.5.1.1 Test Bandwidth/Channel= 80MHz / 5530MHz





Time Index Info

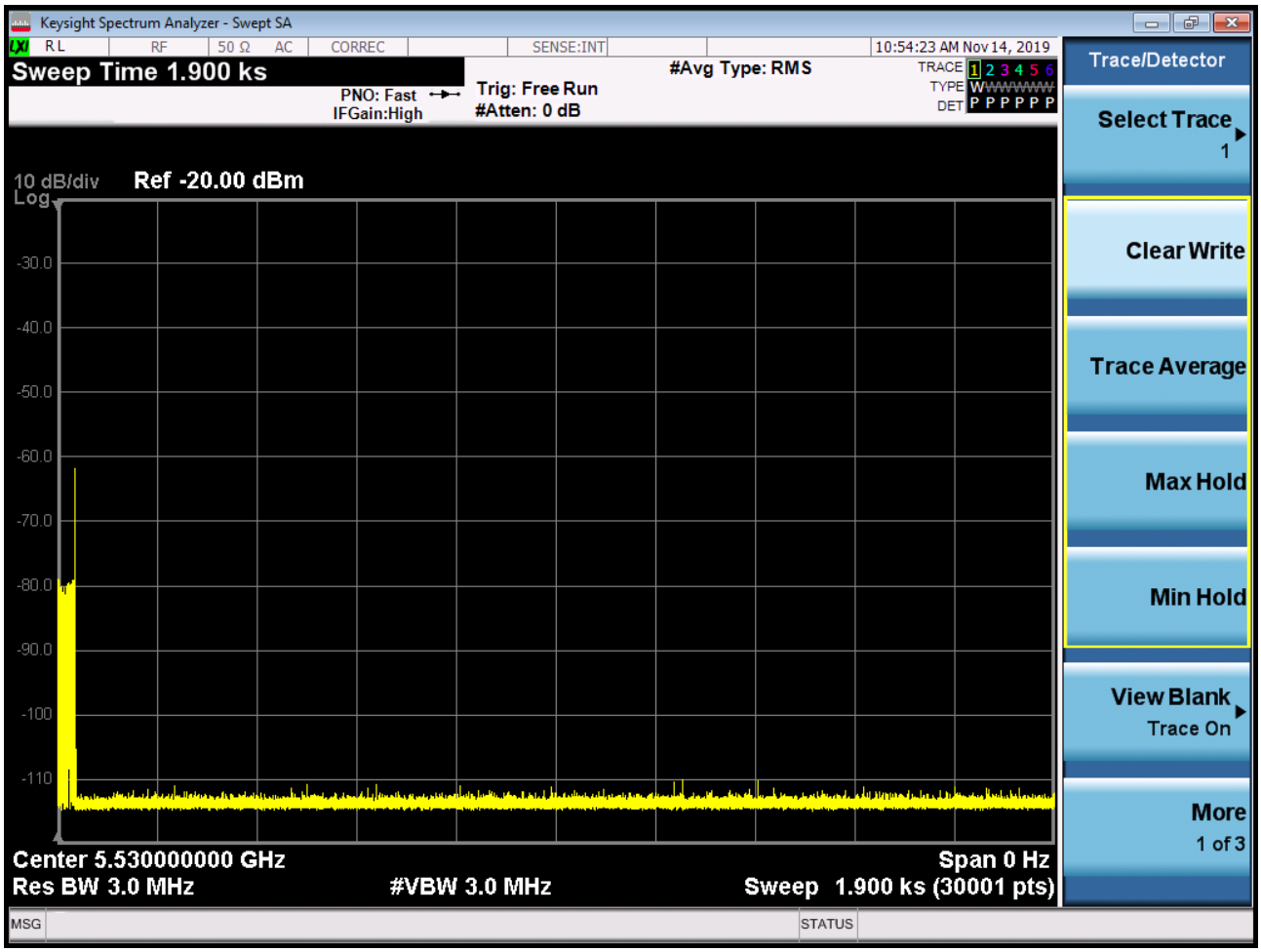
T0 : -0.0245 S (Radar Injection Start)
T1 : 0.0000 S (Radar Injection Stop)
T2 : 0.2000 S (200msec Interval)
T3 : 0.0000 S (Channel Move Time)

Time Per Bin:0.4999833

T2~T3 Bins Over Threshold:
= 18 Bins

Channel Move Time: 0.0 S

Channel Close Time: 0.0089997 S



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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)

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6 Equipment List

RF conducted					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/4/9	2020/4/8
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2018/12/7	2019/12/6
				2019/11/21	2020/11/20
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/13
Humidity/ Temperature Indicator	MingGao	TH101B	W006-05	2019/6/27	2020/6/26

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	2018-12-20	2019-12-19
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	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	2018-12-10	2019-12-09
				2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2018-12-10	2019-12-09
				2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
				2018-12-10	2019-12-09
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2018-12-10	2019-12-09
				2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2018-12-20	2019-12-19
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 Set-Up for ZR/2019/A0032.

The End